NOKIA

CONNECTING PEOPLE

User Guide

Nokia 3200 phone at a glance

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• QUICK GUIDE

Action	Description
Make a call	Enter a phone number, and press the **Talk** key.
Answer a call	Press the **Talk** key, or select **Answer**.
Answer call during call	Press the **Talk** key.
End a call	Press the **End** key.
Decline a call	Press the **End** key to send the call to voice mail.
Mute a call	Select **Mute** during a call.
Redial	Press the **Talk** key twice.
Adjust call volume	Press the **Left** and **Right scroll** keys during a call.
Use in-call menu	Select **Options** during a call.
Save name and number	Enter a number, select **Options > Save**, enter a name, and select **OK**.
Use 1-touch dialing	Press and hold a key (**2**–**8**). You must assign a key to a number in the phone book.
Look up a name	Select **Contacts > Find**.
Check voice mail	Press and hold the **1** key (contact your service provider for details).
Write text messages	Select **Menu > Messages > Text Messages > Create message**. Write the message.
Send text messages	In the message entry screen, select **Options > Send**. Enter the recipient's phone number or search for it in contacts, and select **OK**. **Note:** Message service is dependent on the service provider.
Read new message	If **n message(s) received** appears on the display, select **Show**; then select the message you want to read.
Reply to a message	Select **Options > Reply**. Write a reply, and select **Options > Send**.
Press	Press a key briefly and release it.
Press and hold	Press a key, hold it for two to three seconds, and release it.

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Your device may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

Manufactured or sold under one or more following US Patents.
Asterisk (*) indicates design patents pending.

RE 32,580	4558302	4868846	4945633	4969192	5001372
5101175	5151946	5173927	5212834	5230091	5241583
5311151	5317283	5331638	5335362	5353328	5371481
5378935	5384782	5396657	5400949	5416435	5442521
5446364	5479476	5526366	5553125	5557639	5565821
5570369	5581244	5600708	5625274	5677620	5692032
5729541	5760568	5794142	5802465	5809413	5818437
5827082	5839101	5844884	5845219	5870683	5884103
5889770	5907823	5912570	5914690	5914796	5917868
5920826	5953541	5956332	5956625	5956633	5966378
5977887	5987137	5991857	6006114	6011554	6011853
6014551	6014573	6026161	6035189	6038238	6043760
6047196	6049796	6050415	6055439	6060193	6069923
6072787	6081732	6084920	6084962	6094587	6097964
6105784	6112099	6115617	6119180	6121846	6128509
6138091	6140966	6144243	6144676	6148209	6151485
6151507	6163609	6164547	6167248	6185295	6188909
6249584	6259312	6266330	6272361	6282436	6292668
6295286	6311054	6314166	6324389	6324412	6347218
6363259	6370362	6370389	6377820	6381468	6392660
6400958	6453179	6463278	6470470	6487397	6522670
6198928	4969192	5266782	5390223	5444816	5487084
5640395	5664053	5699482	5701392	5722074	5754976
5805301	5835889	5857151	5859843	5862178	5898925
5930233	5946651	5960354	5960389	5963901	6005857
6011971	6031827	6118775	6128322	6137789	6167248
6170073	6178535	6195338	6199035	6240076	6266321
6285888	6356759	6377803	6430163	6438370	6456237

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Contents

Quick guide ii

Contents 5

1 For your safety 1
About your device 2
Network services 3
Shared memory 3

2 Overview of functions 4
Camera 4
FM radio 4
Flashlight 4
Multimedia messaging service (MMS) 4
Speakerphone 5
GPRS and EDGE 5
MIDP Java™ applications 5
Polyphonic sound (MIDI) 5
Advanced multimedia player 5
Browser 6
Special user interface features 6

3 About your phone 7
Register your phone 7
Terms 7
Find information about your phone 8
Get help 8
Start screen 10
Copyright protection 12
Accessibility solutions 12
Nokia PC Suite 12
Phone menus 12

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4 Basic operations 14
Install the SIM card 14
Switch the phone on or off 16
Antenna 16
Set the clock 16
Make and answer calls 17
Earpiece volume 18
Loudspeaker 18
Options during a call 19

5 Text entry 20
Standard mode 20
Predictive text input 21
Punctuation and special characters 22

6 Phone security 23
Keyguard 23
PIN code request 23
Call restrictions 23
Fixed dialing 24
Closed user groups 26
Security levels 26
Access codes 27

7 Messages (Menu 1) 29
Linked messages 29
Before you can send and receive messages 29
Icons 30
Options 30
Default message type 31
Font size 31
Save your message center number 31
Organize messages with folders 32
Delete messages 33
Message settings 34
Write and send a text message 36

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Read messages 36
Reply to a message 37
Forward a message 37
Picture messages 38
E-mail 40
Multimedia messages 40
Voice messages 43
Info message service 45
Service commands 45

8 Call log (Menu 2) 46
Options 46
View calls options 46
Missed calls 47
Received calls 47
Dialed numbers 47
Call times 48
Delete call lists 48
Call duration 48

9 Contacts (Menu 3) 49
Menu 49
Types of information 49
Save information 50
Change the default (primary) number 51
Search for an entry 51
Make a call 52
Add an image to a name or number 52
Edit an entry 52
Delete names and numbers 52
Copy entries 53
Business cards 53
1-touch dialing 54
Info, service, and own numbers 55
Caller groups 55
Select contacts view and memory 56

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10 Settings (Menu 4). 57
Over the Air (OTA) settings service. 57
Profiles 57
Tone settings 58
Display settings 58
Time and date settings 60
Personal shortcuts 61
Connectivity 63
Call settings 65
Phone settings 68
Enhancement settings. 70
Security settings 71
Restore factory settings 72

11 Gallery (Menu 5). 73
Folders. 73
Folder items 73
Edit an image 74

12 Media (Menu 6) 76
Camera 76
Radio. 78
Voice recorder 79

13 Organizer (Menu 7). 81
Alarm clock. 81
Calendar 82
Calculator. 86

14 Applications (Menu 8) 88
Games 88
Collection 89

15 Services (Menu 9). 92
Set up for browsing 92
Sign on to the mobile Internet 93
Navigate the mobile Internet 93

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Examples of mobile Internet sites 94
Bookmarks 94
Service inbox 95
File upload 96
Disconnect from the mobile Internet. 96
Set up an automatic connection 96
Receive a call while online 96
Make a call while online 96
Make an emergency call while online 97
Options while online 97
Security. 98
Allow or reject cookies 98
Create a digital signature 99
Appearance settings 99

16 Go to (Menu 10) 100

17 SIM services (Menu 11) 100

18 Instant messaging (Menu 12) 101
IM service provider icons 101
Register with an IM service 102
IM menus 102
Log in 102
Set your availability. 103
IM conversations 103
IM contacts 105
Group chat sessions. 107
IM settings 108
Log off service 109

19 Hardware and enhancements 110
Hardware 110
Cut-out covers 111
Enhancements 114

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20 Reference Information. 115
Battery information 115
Enhancements 116
Enhancements, Batteries, and Chargers. 116
Care and maintenance. 116
Additional safety information. 117
Technical information 122
Appendix A Message from the CTIA. 127
Appendix B Message from the FDA 131
Index 137

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1 For your safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.

SWITCH ON SAFELY

Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

ROAD SAFETY COMES FIRST

Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.

INTERFERENCE

All wireless phones may be susceptible to interference, which could affect performance.

SWITCH OFF IN HOSPITALS

Follow any restrictions. Switch the phone off near medical equipment.

SWITCH OFF IN AIRCRAFT

Follow any restrictions. Wireless devices can cause interference in aircraft.

SWITCH OFF WHEN REFUELING

Don't use the phone at a refueling point. Don't use near fuel or chemicals.

SWITCH OFF NEAR BLASTING

Follow any restrictions. Don't use the phone where blasting is in progress.

USE SENSIBLY

Use only in the normal position as explained in the product documentation. Don't touch the antenna unnecessarily.

QUALIFIED SERVICE

Only qualified personnel may install or repair this product.

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ENHANCEMENTS AND BATTERIES

Use only approved enhancements and batteries. Do not connect incompatible products.

WATER-RESISTANCE

Your phone is not water-resistant. Keep it dry.

BACK-UP COPIES

Remember to make back-up copies or keep a written record of all important information stored in your phone.

CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

EMERGENCY CALLS

Ensure the phone is switched on and in service. Press **End** as many times as needed to clear the display and return to the main screen. Enter the emergency number, then press **Send**. Give your location. Do not end the call until given permission to do so.

• ABOUT YOUR DEVICE

The wireless device described in this guide is approved for use on the GSM 850, 900, 1800, and 1900 networks. Contact your service provider for more information about networks.

When using the features in this device, obey all laws and respect privacy and legitimate rights of others.

Warning: To use any features in this device, other than the alarm clock, the phone must be switched on. Do not switch the device on when wireless phone use may cause interference or danger.

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• NETWORK SERVICES

To use the phone you must have service from a wireless service provider. Many of the features in this device depend on features in the wireless network to function. These Network Services may not be available on all networks or you may have to make specific arrangements with your service provider before you can utilize Network Services. Your service provider may need to give you additional instructions for their use and explain what charges will apply. Some networks may have limitations that affect how you can use Network Services. For instance, some networks may not support all language-dependent characters and services.

Your service provider may have requested that certain features be disabled or not activated in your device. If so, they will not appear on your device menu. Contact your service provider for more information.

• SHARED MEMORY

The following features in this device may share memory: contacts list, text and multimedia messages, images and ringing tones in the gallery, voice recorder, calendar notes, and Java™ games and applications. Use of one or more of these features may reduce the memory available for the remaining features sharing memory. For example, saving many images may use all of the available memory. Your phone may display a message that the memory is full when you try to use a shared memory feature. In this case, delete some of the information or entries stored in the shared memory features before continuing. Some of the features may have a certain amount of memory specially allotted to them in addition to the amount of memory shared with other features.

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2 Overview of functions

• CAMERA

Your phone has a built-in camera. You can use the full-color screen as a camera viewfinder and the self-timer for a 10-second delay. After you have taken a picture, you can attach it to a multimedia message and send it with MMS, save it as wallpaper in the standby mode, use it as a thumbnail picture in contacts, save it in a compatible PC using Nokia PC Suite software, and upload it to a web address with the content image uploader. When you attach a picture to an entry in your list of contacts, the picture is displayed when your contact calls you.

See “Camera” on page 76 for more information.

• FM RADIO

Your phone has an FM radio that also functions as a clock radio alarm. You can listen to the radio through a headset or the handsfree speaker (with the headset attached).

See “Radio” on page 78 for more information.

• FLASHLIGHT

Your phone has a built-in flashlight that you can activate when the phone is in the standby mode or when there is a call in progress.

To turn the flashlight on or off, press and hold the * key.

• MULTIMEDIA MESSAGING SERVICE (MMS)

Your phone is able to send and receive multimedia messages made up of text and pictures and to receive messages containing text, a picture, and sound such as polyphonic ringing tones. You can save pictures and ringing tones to personalize your phone. In addition, you can easily send text messages and multimedia messages to multiple recipients.

See “Multimedia messages” on page 40 and “Options” on page 30 for more information.

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• SPEAKERPHONE

You can use your phone as a speakerphone.

See "Loudspeaker" on page 18 for more information.

• GPRS AND EDGE

General packet radio service (GPRS) technology allows mobile phones to send and receive data over a mobile network. Applications such as browsers, MMS, text messaging, and Java use GPRS. Your phone supports up to three simultaneous GPRS connections.

For more information, see "GPRS, EDGE, CSD" on page 64.

Also, consult the PC Suite 5.7 User Guide and PC Connectivity Guide. The guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of **www.nokia.com**.

• MIDP JAVA™ APPLICATIONS

Your phone supports Java 2 Micro Edition, J2ME™, and includes some Java applications and games that have been specially designed for mobile phones.

You may be able to download new applications and games to your phone from a PC with Java installer software or from some mobile Internet services.

See "Applications (Menu 8)" on page 88 for more information.

• POLYPHONIC SOUND (MIDI)

Polyphonic sounds can be used in ringing tones, gaming sounds, and message alert tones. They consist of several sound components played at the same time, like an actual melody through a speaker. Your phone has sound components from over 40 instruments that can be used for polyphonic sounds and the phone can play four instruments simultaneously. The phone supports scalable polyphonic MIDI (SP-MIDI) format.

You can receive polyphonic ringing tones using a multimedia service (see "Read and reply" on page 42) or download them using the gallery menu [see "Gallery (Menu 5)" on page 73].

• ADVANCED MULTIMEDIA PLAYER

The built-in multimedia player allows you to view images and play audio and image animations. The multimedia player is activated by other features, such as the Gallery, when there are multimedia files to be displayed.

See "Gallery (Menu 5)" on page 73 for more information.

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• BROWSER

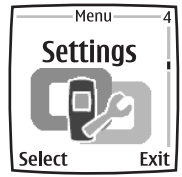
The built-in browser can interpret both WAP-based and XHTML-based content.

See “Services (Menu 9)” on page 92 for more information.

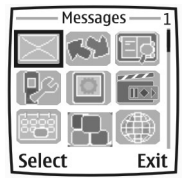
• SPECIAL USER INTERFACE FEATURES

You can choose from two types of menu interface: **List** and **Grid**.
See “Select menu view” on page 60 for more information.

In the **List** interface, full color images introduce every menu. Use the **Scroll up** and **Scroll down** keys to navigate through the menus.



In the **Grid** interface, multiple menu icons appear on a single display. Use all four scroll keys to navigate through the icons.



With the **Go to** menu feature, you can create a convenient shortcut menu available through the **Right selection** key that lists the functions that you use most often. For more information about the **Go to** menu, see “Personal shortcuts” on page 61.

Quick keys from the start screen take you instantly to functions accessed frequently. See “Quick keys” on page 10 for more information.

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3 About your phone

Congratulations on your purchase of the Nokia 3200 mobile phone. Your phone provides many functions which are practical for daily use, such as a camera, radio, alarm clock, calculator, calendar, and more. Your phone can also connect to a PC, laptop, or other device using the data cable or built-in IR port. To personalize your phone, you can set your favorite ringing tones, program a Go to Menu, and create custom cut-out covers. For more information on connectivity, refer to the PC Suite 5.7 User Guide and PC Connectivity Guide. The guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of **www.nokia.com**.

• REGISTER YOUR PHONE

Be sure to register your phone at **www.warranty.nokiausa.com** or call 1-888-NOKIA-2U (1-888-665-4228) so that we can serve you better if you need to call a customer center or to have your phone repaired.

• TERMS

This guide uses certain terms for the parts of the phone and the steps that you are asked to perform.

- **Highlighted** options on the screen are enclosed within a dark bar. The selection keys are used to act on the highlighted option.
- **Scroll keys** are used to move up and down in the menus. With some features, such as the calendar monthly view, text messages, and special characters, you can move the screen cursor left and right as well as up and down. For example, if instructed to scroll to another contacts entry, this means press the **Scroll up** key or the **Scroll down** key. In some submenus, not all options are visible at once, and you may need to scroll up or down to view the full range of options.
- **Select** means to press the **Left selection** key or the **Right selection** key. To select an option, press the selection key below the menu item on the phone screen. In the illustration, press the **Left selection** key to select **Inbox**, or press the **Right selection** key to go back to the previous menu. Some functions require you to go through several submenus. For example, if this guide says Select **Settings > Tone settings > Ringing tone** you would scroll to the **Settings** menu and press the **Left selection** key, then scroll to the **Tone settings** option and press the **Left selection** key, then scroll to the **Ringing tone** option and press the **Left selection** key.

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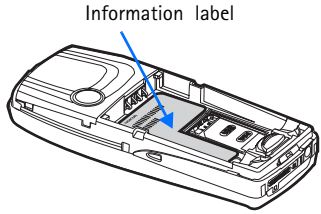
• FIND INFORMATION ABOUT YOUR PHONE



The label on the back of your phone, underneath the battery, contains the following information:

- Model number
- Phone type and FCC ID
- International mobile equipment identity (IMEI)

• GET HELP

If you need help, Nokia Customer Care is available for assistance. We recommend that you write down the following information and have it available if you call.

- The IMEI printed on the back of the phone, beneath the battery
- Your zip code

Contact Nokia

Please have your phone or enhancement with you when contacting either of the numbers below.

Nokia Customer Care Center, USA	**Customer Care, Canada**
Nokia Inc. 7725 Woodland Center Boulevard Suite 150 Tampa, Florida 33614 Tel: 1-888-NOKIA-2U (1-888-665-4228) Fax: 1-813-249-9619 TTY: 1-800-24-NOKIA (1-800-246-6542) (for TTY/TDD users only)	Nokia Products Ltd. 601 Westney Road South Ajax, Ontario L1S 4N7 Tel: 1-888-22-NOKIA (1-888-226-6542) Fax: 1-905-427-1070

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Contact your service provider

To use the network services available in your phone, you will need to sign up with a service provider. In many cases, the service provider will make available descriptions of their services and instructions for using features such as:

- Voice mail and voice privacy
- Call waiting, call forwarding, and caller ID
- Messaging
- News and information services
- Selected Internet services

Service providers may differ in their support of features. Before you sign up, make sure that your service provider supports the features that you want to use.

Guide updates

From time to time, Nokia updates this guide to reflect changes. The latest version may be available at **www.nokia.com/us**.

Online tutorials

An interactive tutorial for this product may be available at the web site **www.nokiahowto.com**.

In-phone help

Many features have brief descriptions (help text) which can be viewed on the display. To view these descriptions, scroll to a feature and wait for about 15 seconds. Select **More** to view all of the description (if necessary), or select **Back** to exit.

To activate or deactivate help text:

From the menus, select **Settings > Phone settings > Help text activation > On** or **Off**.

A confirmation message appears in the display indicating your selection.

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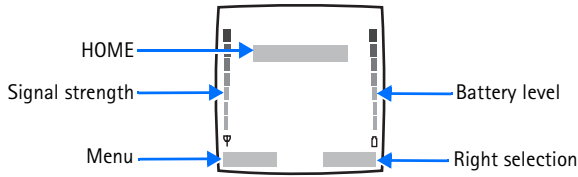
• START SCREEN

The start screen is “home base” and indicates that the phone is in the standby mode.



HOME—The name of your service provider may appear here.

Signal strength—A higher bar indicates a stronger network signal.

Battery level—A higher bar indicates more power in the battery.

Menu—The **Left selection** key in the standby mode accesses the menu functions.

Right selection—The **Right selection** key in the standby mode accesses either the **Contacts** menu (default), the **Go to** menu, a service provider’s home page, or a user-specified function. See “Personal shortcuts” on page 61.

Quick keys

From the start screen, each scroll key takes you directly to a function:

Scroll up—Activate the camera.

Scroll left—Create a message.

Scroll down—Go to your list of contacts.

Scroll right—View the calendar.

Screen saver

The phone automatically activates a digital clock screen saver to save power in the standby mode. Press any key to deactivate the screen saver. For more information, see “Set screen saver timeout” on page 59.

Wallpaper

You can set the phone to display a background picture (wallpaper) when it is in the standby mode. See “Wallpaper” on page 58.

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Indicators and icons

Icon	Indicates...
	You have one or more text or picture messages. See “Receive a message” on page 36.
	You have one or more multimedia messages. See “Read and reply” on page 42.
	You have one or more voice messages. See “Voice messages” on page 43.
	Your phone keypad is locked. See “Lock the keypad” on page 23.
	Your phone is set to the **Silent** profile. See “Profiles” on page 57.
	The alarm clock is set to **On**. See “Alarm clock” on page 81.
	The GPRS connection mode **Always online** is selected and the GPRS service is available.
	You have an incoming or outgoing call during a GPRS dial-up connection. GPRS is suspended.
	There is an active GPRS connection.
	IR connection indicator. See “Infrared” on page 63.
	Forward all voice calls. All calls are forwarded to another number. If you have two phone lines, the indicator for line 1 is and for line 2 .
	If you have two phone lines, this indicates that you are on the second phone line. See “Phone settings” on page 68.
	Integrated handsfree is active. See “Speakerphone” on page 5.
	Calls are limited to a closed user group. See “Closed user groups” on page 26.
	The timed profile is selected. See “Profiles” on page 57.
	A headset, handsfree, or Nokia Loopset enhancement is connected to the phone.
	Voice privacy encryption is active (or is not active) in the network.

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• COPYRIGHT PROTECTION

Copyright protections may prevent some images, ringing tones, and other content from being copied, modified, transferred or forwarded.

• ACCESSIBILITY SOLUTIONS

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. For more information, visit the web site at **www.nokiaaccessibility.com**..

• NOKIA PC SUITE

Nokia PC Suite is a collection of powerful tools that you can use to manage phone features and data. For example, with PC Suite you can manage the photos from the phone camera, create new ringing tones and wallpapers, and create new cut-out covers from your photos.

PC Suite software and documentation for the Nokia 3200 can be downloaded from the U.S. Mobile Phone products section of **www.nokia.com**.

• PHONE MENUS

Phone features are grouped according to function and are accessed through the main menus of your phone. Each main menu contains submenus and lists from which you can select or view items and customize phone features. You can access these menus and submenus by using the scroll method or by using a shortcut.

Note: Some service providers order the phones specially programmed for their network. This may mean that some features are not shown on the menu. For more information, contact your service provider.

Scroll method

1 At the start screen, select **Menu**.

2 In the **List** view, scroll through the main menus one at a time using the **Scroll up** key and the **Scroll down** key.

OR

In the **Grid** view, use all four scroll keys to navigate through the main menu icons.

As you scroll through the menus, the menu number appears in the upper right corner of the display. Below the menu number is a scroll bar with a tab. The tab moves up or down as you scroll through the

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menus, providing a visual representation of your current position in the menu structure.

In addition, in the **Grid** view, the icon for the selected menu is outlined, and the name of the menu appears at the top of the display.

3 When the desired menu is highlighted, press the **Left selection** key.

4 If the menu contains submenus, use the scroll keys to highlight the desired menu; then press the **Left selection** key.

- Select **Back** (press the **Right selection** key) to return to the previous menu or submenu.
- Press the **End** key to return to the start screen from any main menu.

Shortcuts

You can go directly to almost any menu or submenu, as well as activate most features by using a shortcut.

Select **Menu**; then, within 3 seconds, press the key or keys associated with the menu function you would like to view or activate.

For example, to delete the list of missed calls, select **Menu 2-4-2** (**Menu > Call log > Delete recent call lists > Missed**) from the start screen. After a brief pause, the list of missed calls is deleted.

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4 Basic operations

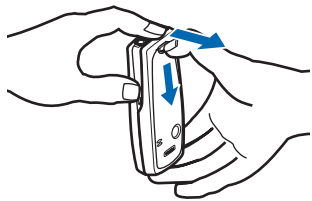
• INSTALL THE SIM CARD

The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting, or removing the card.

Keep all SIM cards out of the reach of small children. For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider, network operator, or other vendor.

Always switch the device off and disconnect the charger before removing the battery.

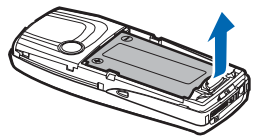
REMOVE THE BACK COVER



1 With the back of the phone facing you, push the back cover release button toward the top of the phone.

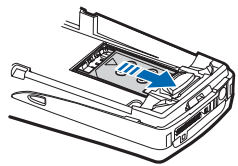
2 Lift the cover from the phone.

REMOVE THE BATTERY

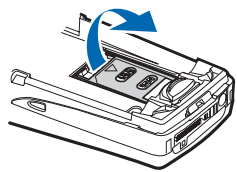


3 Remove the battery by lifting it from the finger grip.

INSERT THE SIM CARD



4 Slide the SIM card holder backwards to release it.



5 Swing the SIM card holder open.

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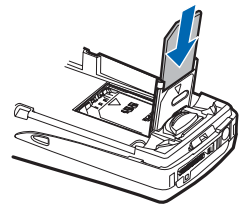
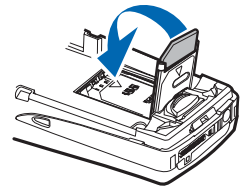
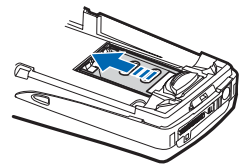
6 Insert the SIM card into the SIM card holder with the beveled corner to the top left and the golden contact area facing down.



7 Close the SIM card holder.



8 Slide the SIM card holder toward the top end of the phone until it locks into place.

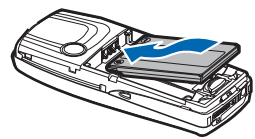


REPLACE THE BATTERY

The SIM card must be installed *before* installing the battery.

9 Position the battery so the golden contacts match up with those on the phone.

The battery label should be facing up.



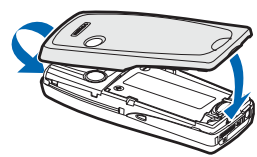
10 Insert the battery, contact end first into the battery slot.

11 Snap the other end of the battery into place.

REPLACE THE BACK COVER

12 Slide the back cover just below its locked position on the back of the phone.

13 Slide the back cover forward to lock the cover into place.



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• SWITCH THE PHONE ON OR OFF

Warning: Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

1 To turn your phone on or off, press and hold the power key on top of the phone for at least 3 seconds.

If the phone displays **Insert SIM card** even though the SIM card is properly inserted, or **SIM card not supported**, contact your service provider.

2 If the phone asks for a PIN code, enter the PIN code (displayed as ****) and select **OK**.

See “PIN code request” on page 23 for more information.

3 If the phone asks for a security code, enter the security code and select **OK**.

See “Security code” on page 27 for more information.

Note: If the language that appears in your display is not correct, see “Set the display language” on page 68 for information on changing the display language.

• ANTENNA

Your device has an internal antenna.

Note: As with any other radio transmitting device, do not touch the antenna unnecessarily when the device is switched on. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed. Avoiding contact with the antenna area when operating the phone optimizes the antenna performance and the battery life.

• SET THE CLOCK

Before many functions such as call timers will operate properly, you need to set the clock.

1 From the menus, select **Settings > Time and date settings > Clock > Set the time**.

2 Enter the time in *hh:mm* format, and select **OK > am** or **pm**.

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• MAKE AND ANSWER CALLS

Use the keypad

1 Enter the phone number (including the area code), and press the **Talk** key.

To delete a character to the left of the cursor, select **Clear**.

2 To end the call or to cancel the call attempt, press the **End** key.

Use contacts

1 At the start screen, press the **Scroll down** key and scroll to the entry you wish to view.

To search the list of entries quickly, press any key in which the letters match the first letter of the name for which you are searching.

2 Press the **Talk** key to make the call or select **Details** to view details of the entry.

Redial a number

1 At the start screen, press the **Talk** key to display the last 20 numbers you have dialed.

2 Press the **Talk** key to redial the last number, or scroll to the number (or name) you wish to redial and press the **Talk** key.

Make an international call

1 Press the ***** key twice for the international prefix.

A plus (+) sign replaces the international access code.

2 Enter the country code, the area code without a leading zero (if necessary), and the phone number.

Make a conference call

Conference calling is a network service that allows up to six persons to take part in a conference call.

1 Make a call to the first participant.

2 To call a new participant, select **Options > New call**.

3 Enter the phone number of the new participant, or select **Find** to retrieve a number from contacts, and select **Call**.

The first call is put on hold.

4 When the new call picks up, select **Options > Conference** to connect the calls.

5 To add a new participant to the call, repeat steps 2–4.

6 To have a private conversation with one participant, select **Options > Private**, and select the desired participant.

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7 Rejoin the conference call as described in step 4.

8 To end the conference call, press the **End** key.

Answer or reject an incoming call

- Press the **Talk** key to answer the call.
- Press the **End** key to reject the call.
- If **Forward if busy** is activated to your voice mailbox, the call is diverted to your voice mail. If not, the call is rejected.
- If you select **Silence**, only the ringing tone is muted. You can then either answer or reject the incoming call.
- If the HDB-4 or HDS-3 headset is connected, you can answer or end a call by pressing the key on the headset.

Answer a call with the keypad locked

See "Keyguard" on page 23 for more information.

To answer a call with Keyguard on, simply press the **Talk** key. During the call, all features function as normal. When you end or reject the call, the keypad automatically relocks.

When Keyguard is on, calls still may be possible to the official emergency number programmed into your phone. Enter the emergency number and press the **Talk** key.

• EARPIECE VOLUME

- To increase the volume of a call, press the **Right scroll** key.
- To decrease the volume of a call, press the **Left scroll** key.
- When adjusting the volume, a bar chart appears in the display indicating the volume level.

You can also set the phone to adjust the earpiece volume automatically. See "Automatic volume control" on page 66 for more information.

• LOUDSPEAKER

You can use your phone as a loudspeaker during a call. Do not hold the phone to your ear during the loudspeaker operation as the volume may be very high.

- To activate the loudspeaker, select **Options > Loudspeaker**.
- To deactivate the loudspeaker during a call, select **Options > Handset**.
- The loudspeaker is deactivated automatically when a call (or a call attempt) ends or when certain enhancements are connected.

Note: When you select the **New call** option from the in-call menu, the loudspeaker does not automatically deactivate.

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• OPTIONS DURING A CALL

Many of the options that you can use during a call are network services. During a call, select **Options** and one of the following:

Mute—Mute your voice; you can hear the other party but they cannot hear you.

Unmute—Return to normal from mute status.

End call—End the call.

End all calls—End all calls within a conference call.

Contacts—Open the contacts menu.

Menu—Display the main menus.

Hold—Place the current call on hold.

Unhold—Remove the current call from hold status.

Lock keypad—Lock the keypad to prevent an accidental key press.

New call—Place a new call; the first call is put on hold.

Conference—Call another party and invite them into the call.

Private—Have a private conversation with one participant in a conference call.

Answer—Answer another incoming call.

Reject—Reject a call; the calling party receives a busy signal.

Loudspeaker—Enable the handsfree feature in your phone.

Handset—Disable handsfree and return to normal use (earpiece).

Touch tones—Send touch tones generated by your phone keypad.

Swap—Switch between the active call and the call on hold.

Transfer—Connect a call on hold to an active call, and disconnect yourself from the calls.

Headset or **Handsfree**—Switch the active call to a compatible accessory when the accessory is connected to the phone.

Record—Make an audio recording of the call. (See "Voice recorder" on page 79 for more information.)

Auto volume on or **Auto volume off**—Set the automatic volume control on or off (See "Automatic volume control" on page 66 for more information.)

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5 Text entry

You can use two methods for entering text and numbers.

- **Standard mode** is the only way to enter names into contacts and to rename caller groups.
- **Predictive text input** is a quick and easy method for writing messages.

Press the **#** key to switch predictive text on or off and to use predictive text in various modes. Press and hold the **#** key to switch between text and numeric entry. As you press the **#** key, the following icons (not the descriptions) appear in the upper left of the display:

Icon	Indicates...
	Uppercase text. Predictive text is off.
	Lowercase text. Predictive text is off.
	Sentence case text. Predictive text is off.
	Sentence case text. Predictive text is on.
	Lowercase text. Predictive text is on.

• STANDARD MODE

Enter text (Abc)

- Press a key once to insert the first letter on the key, twice for the second letter, etc. If you pause briefly, the last letter in the display is accepted and your phone awaits the next entry.
- Select **Clear** to backspace the cursor and delete a character.
- Select and hold **Clear** to backspace continuously and delete characters.
- Press the **0** key to enter a space and accept a completed word.
- Press the **1** key to enter a period (.).
- Press the ***** key to display special characters. See "Punctuation and special characters" on page 22.

Enter numbers (123)

To switch to **123** mode from **Abc** mode, press and hold the **#** key at any message entry screen until the icon in the upper left corner of the display switches from **Abc** to **123** (or vice versa).

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• PREDICTIVE TEXT INPUT

Predictive text input allows you to write messages quickly using your keypad and the built-in phone dictionary. It is much faster than using the standard mode "multitap" method. You can use predictive text to write a message, or create a calendar note.

Note: When predictive text is on, the icon appears in the upper left corner of the display. When predictive text is off, the icon appears in the upper left corner of the display.

Activate predictive text

1 At any text entry screen, select and hold **Options**.

OR

At a text entry screen, select **Options** > **Predictive text**.

2 Select the language of your choice.

A confirmation message shows that predictive text is turned on.

Enter text

- For each letter of the word that you want to spell, press the corresponding key on your keypad only *once*, even if the letter you want is not the first letter on the key. The phone predicts the word you are trying to spell.
- If a displayed word is not correct, press the ***** key to see other matches. To move forward through a list of matches, keep pressing the ***** key. To return to the previous word in the list of matches, select **Previous**.
- Press the **0** key to accept the word, enter a space, and begin writing the next word.
- If **?** appears after a word, select **Spell** to add the word to the dictionary. See "Add new words to the dictionary" on page 21.
- Press the **1** key to insert a period into your message.
- Press and hold the ***** key to display special characters. See "Punctuation and special characters" on page 22.

Compound words

Enter the first part of the word and confirm it by pressing the **Scroll right** key. Enter the last part of the word and confirm it by pressing the **0** key.

Add new words to the dictionary

If you encounter a word that predictive text does not recognize, a question mark (**?**) follows the word and **Spell** appears in the lower left of the display.

Select **Spell**, enter your new word using the keypad, and select **Save**. The word is added to the dictionary and to the message that you are writing.

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Keep these factors in mind when adding words:

- New words that you accept by selecting **Save**, the **0** key, or deleting the space between two words are saved to the dictionary.
- Depending on the language and the length of the words, you may be able to add hundreds of words to the dictionary.
- When the dictionary is full, the most recent addition replaces the first.

Predictive text example

To write *Nokia* with predictive text on and with the English dictionary selected, press each of the following keys *once*:

the **6** key | the **6** key | the **5** key | the **4** key | the **2** key

The illustration above simulates your display each time a key is pressed.

• PUNCTUATION AND SPECIAL CHARACTERS

While at any text entry screen, press the ***** key to display special characters (press and hold the ***** key if predictive text is on).

Navigate through the list of special characters by using the four-way scroll keys like a joystick. Once a character is highlighted, select **Insert** to insert the character into your message.

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6 Phone security

An array of security features prevents accidental calls, allows you to restrict the calls your phone can make and receive, and keeps your stored information safe.

• KEYGUARD

With Keyguard, you can lock the keypad to prevent keys from being pressed accidentally.

If the keypad is locked, it unlocks when you receive a call. After the call, the lock automatically reactivates.

Lock the keypad

Select **Menu** > * key.

Unlock the keypad

Select **Unlock** > * key.

When the Keyguard is on, calls still may be possible to the official emergency number programmed into your phone. Enter the emergency number and press the **Talk** key.

• PIN CODE REQUEST

The PIN code protects the SIM card from unauthorized access. The PIN code can be 4–8 digits in length. After three successive incorrect entries the PIN code is blocked and you will be asked to enter the personal unblocking key (PUK) code.

Note: The PIN code must be obtained from your service provider. The PIN code is typically provided with your SIM card.

Enable your phone to request the PIN code upon power-up. This provides extra security in case your phone is lost or stolen.

1 From the menus, select **Settings** > **Security settings** > **PIN code request**.

After a brief pause, you are prompted to enter the current PIN code.

2 Enter the PIN code and select **OK**.

3 Scroll to **On** and select **OK**.

A message appears in the display confirming your selection.

• CALL RESTRICTIONS

This network service lets you restrict the calls your phone can make and receive. Check with your service provider for details.

When calls are restricted, calls still may be possible to the official emergency number programmed into your phone.

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Turn on call restrictions

1 From the menus select **Settings > Security settings > Call restrictions** and one of the following:

Outgoing calls—Calls cannot be made.

International calls—Calls cannot be made to foreign countries.

Int. calls except to home country—When abroad, calls can be made only within the current country and to your home country (that is, the country where your home network operator is located).

Incoming calls—Calls cannot be received.

Incoming calls if roaming—Calls cannot be received outside your home area.

Cancel all call restrictions—Turns off all call restrictions. Calls can be made and received in the usual way.

Note: If you selected **Cancel all call restrictions**, the following steps are not available. Also, you can cancel call restrictions on each option, allowing restrictions on other options to stay in force.

2 Scroll to one of the following:

Activate—Enter the restriction password and select **OK**.

Cancel—Enter the restriction password and select **OK**.

Check status—The phone lists the call types with call restriction active.

3 Select **OK**.

Change your restriction password

Contact your service provider for your original restriction password.

1 From the menus, select **Settings > Security settings > Access codes > Change restriction password**.

2 Enter your new password, and select **OK**.

• FIXED DIALING

Once you set up and activate a fixed dialing list, your phone can make calls only to those numbers that you have defined in the fixed dialing list. Fixed dialing is a Network Service and must be supported by your service provider.

When fixed dialing is activated, calls still may be possible to the official emergency number programmed into your phone.

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Set up and activate a fixed dialing list

1 From the menus, select **Settings > Security Settings > Fixed dialing**.

After a brief pause, the following options appear in the display:

On—Activate fixed dialing.

Off—Deactivate fixed dialing.

Number list—View the numbers in your fixed dialing list.

Note: If you activate fixed dialing and the number list is empty, all outgoing calls, except for the emergency number(s) programmed into your phone, require entry of the PIN2 code.

2 Select **Number list**.

Fixed dialing not active and then **Fixed dialing list empty** appear in the display.

You are prompted to enter the PIN2 code.

3 Enter the PIN2 code and select **OK**.

4 Enter the fixed dialing number, or select **Find** to retrieve a number from contacts and select **OK**.

5 Enter a name for the number and select **OK**.

A confirmation note appears in the display and you are returned to the fixed dialing number list.

6 Select **Back > On** to activate fixed dialing.

View or edit the fixed dialing list

1 From the menus, select **Settings > Security Settings > Fixed dialing > Number list**.

You are prompted to enter the PIN2 code.

2 Enter the PIN2 code and select **OK**.

Any numbers which you have assigned to fixed dialing appear in the display.

3 Scroll to a number and select **Options**.

The following options appear in the display.

View number—View the number for an entry.

Add—Add a number to your fixed dialing list.

Edit—Edit the highlighted entry.

Delete—Delete the highlighted entry.

Delete all—Delete all entries in your fixed dialing list.

4 Select the desired option.

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Notes about fixed dialing

- If a SIM card with fixed dialing that is activated is inserted into a phone that does not support fixed dialing, the SIM card is rejected.
- If you try to add a name without a number to the fixed dialing list, you will receive an error message.
- If you try to browse the fixed dialing list but have not stored any numbers, **Fixed dialing list empty** appears in the display.
- You cannot access SIM memory manually (view or copy numbers on the SIM card) while fixed dialing is active.

• CLOSED USER GROUPS

This network service specifies the group of people whom you can call and who can call you. **Default** resets the phone to use a user group that the SIM card owner has agreed upon with the service provider.

When calls are limited to closed user groups, calls still may be possible to the official emergency number programmed into your phone.

Turn on closed user groups

1 From the menus, select **Settings > Security settings > Closed user group > On**.

2 Enter the group number, then select **OK.**

Turn off closed user groups

From the menus, select **Settings > Security settings > Closed user group > Off**.

• SECURITY LEVELS

The security level determines your access to features when a nonowner SIM card is used. A nonowner SIM card is one (other than the original) that is inserted after you power off the phone. There are three security levels:

Off—Owner and Nonowner cards are treated the same.

Memory—Nonowner cards can access SIM memory. Any changes to the memory setting requires the security code.

The owner card has access to all features, but the security code is required to change a memory setting.

Phone—The security code is required upon power-up.

Use this procedure to set your security level.

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1 From the menus, select **Settings** > **Security settings** > **Security level**.

After a brief pause, you are prompted to enter the security code. The default code is 12345.

2 Enter the security code and select **OK** > **Off**, **Memory**, or **Phone**.

A message appears in the display confirming your selection.

• ACCESS CODES

With the following access codes, you can keep your information safe:

- Security code (5–10 digits)
- PIN code and PIN2 code (4–8 digits)
- PUK code and PUK2 code (8 digits)
- Call barring password (4 digits)

Note: Avoid using codes similar to emergency numbers such as 911 to prevent accidental dialing of the emergency number.

Security code

The security code controls access to features such as the security level and is supplied with the phone. The preset code is 12345.

Note: If you enter the wrong security code five times in succession, you will not be able to enter a code for five minutes, even if you power off the phone between incorrect entries.

Once you change the security code from its preset of 12345, keep the new code secret and in a safe place separate from your phone. Use this procedure to change your security code.

1 From the menus, select **Settings** > **Security settings** > **Access codes** > **Change security code**.

After a brief pause, you are prompted to enter the current security code (default is 12345).

2 Enter the current security code and select **OK**.

You are prompted to enter the new security code.

3 Enter the new security code (up to 10 characters) and select **OK**.

You are prompted to reenter the new security code for verification.

4 Enter the new security code again and select **OK**.

A message appears in the display confirming your security code has been changed.

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PIN code

Before you can change your PIN code, you need to enable **PIN code request**. See "PIN code request" on page 23.

1 From the menus, select **Settings > Security settings > Access codes > Change PIN code**.

After a brief pause, you are prompted to enter the current PIN code.

2 Enter the PIN code and select **OK**.

You are prompted to enter the new PIN code.

3 Enter the new PIN code and select **OK**.

You are prompted to reenter the new PIN code for verification.

4 Enter the new PIN code and select **OK**.

A message appears in the display confirming your PIN code has been changed.

PIN2 Code

The PIN2 code is required for features such as Fixed dialing. If you enter an incorrect PIN2 code three times in succession, the PIN2 code is blocked and you will have to enter the PUK2 code.

Note: The original PIN2 code must be obtained from your service provider.

Use this procedure to change your PIN2 code.

1 From the menus, select **Settings > Security settings > Access codes > Change PIN2 code**.

You are prompted to enter the current PIN2 code.

2 Enter the current PIN2 code and select **OK**.

You are prompted to enter the new PIN2 code.

3 Enter the new PIN2 code and select **OK**.

You are asked to verify the new PIN2 code by entering it again.

4 Enter the new PIN2 code and select **OK**.

A message appears in the display confirming you have changed the PIN2 code.

Personal unblocking key (PUK) codes

PUK and PUK2 codes are used to restore blocked PIN and PIN2 codes. Both PUK and PUK2 codes are eight characters in length and cannot be changed. PUK and PUK2 codes must be obtained from your service provider.

If you enter an incorrect PUK or PUK2 code 10 times in succession, **SIM rejected** appears in the display and the SIM card can no longer be used. You must contact your service provider for a new SIM card.

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7 Messages (Menu 1)

All messaging features are Network Services. If you have subscribed to a message service, you can send and receive messages to compatible phones that are also subscribed to a message service. You can also send and receive picture messages, multimedia messages, and e-mail to compatible phones if supported by your network. See "Text entry" on page 20 for more information.

Note: When your phone is dedicated to a call in progress, a Java application (such as a game), or an active browser connection, then the phone cannot receive multimedia messages.

• LINKED MESSAGES

Your device supports the sending of text messages beyond the normal 160-character limit. If your message exceeds 160 characters, it will be sent as a series of two or more messages. In the navigation bar, you can see the message length indicator counting backwards from 160. For example, 10 (2) means that you can still add 10 characters for the text to be sent as two messages.

Using special (Unicode) characters, such as ë, â, á, ì, takes up more space. If there are special characters in your message, the indicator may not show the message length correctly. Before the message is sent, the phone tells you if the message exceeds the maximum length allowed for one message. You can cancel sending by pressing **Cancel** or you can save the message in the inbox.

While receiving linked messages, you can start reading the first part before the phone has received the entire message. While viewing a linked message, you can start reading the first part before the phone has received the entire message. While viewing the message, you may see ***some text missing*** on the display. This is normal, and the message content will be updated as soon as the missing sequence arrives.

If the memory is full, you may have to delete a message from your inbox or outbox before your phone can update the missing text. See "Delete messages" on page 33 for more information.

• BEFORE YOU CAN SEND AND RECEIVE MESSAGES

You will need the following to send and receive messages:

- A messaging service through your service provider
- A message center number, which must be saved to your phone (if your service provider has not done so already). See "Save your message center number" on page 31.

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• ICONS

Icons that precede the title of a message indicate the following:

The message has not been read.

The message has been read.

The message which you have composed has not been sent.

The message which you have composed has been sent.

 The message is a delivery report.

The message is a MMS (multimedia message).

• OPTIONS

When you create a text or multimedia message, the following options are available:

Send—Send the message to one recipient.

Sending options—Select **Send to many** to send the message to one of your fixed calling groups. Select **Sending profile** to send the message to one of your predefined profiles.

Clear text—Erase the text clipboard.

Save message—Select **Archive** to save the message in your archive. Select **Templates** to save the message as one of your predefined templates.

Insert contact—Insert a name from contacts into your message.

Insert number—Insert a number from contacts into your message.

Use template—Insert a predefined template into your message.

Insert picture—Insert a picture from the gallery into your message.

Exit editor—Save the message to your archive automatically and leave the message editor.

Insert smiley—Insert a text-based "emotional icon" into your message.

Insert word—While in predictive text mode, use standard mode to enter a word and insert it into your message.

Edit word—While in predictive text mode, use standard mode to edit the current word.

Insert symbol—Insert a special character into your message.

Predictive text—Turn the predictive text utility on or off.

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Matches—While in predictive text mode, view a list of possible alternatives to the current word.

When you view a text, picture, or multimedia message, or e-mail, some or all of the following options are available:

Delete—Delete the message you are viewing.

Reply—Reply to the message; you have the option to include the original text in the reply, a template, or empty screen.

Use detail—Extract numbers, e-mail addresses and website addresses from the current message.

Forward—Forward the message to another recipient.

Edit—Edit the message.

Move—Move the message to a folder you specify.

Rename—Rename the message before it is saved to a folder.

Copy to Calendar—Copy text from the beginning of the message to your phone's calendar as a memo for the current day.

Message details—View the sender's name and phone number, the message center used, reception date and time.

• DEFAULT MESSAGE TYPE

You can choose the type of message sent by your phone. Types include **Text**, **E-mail**, **Page**, and **Fax**. The default message type is **Text**. This feature is a Network Service and must be supported by your service provider.

1 From the menus, select **Messages > Message settings > Text messages > Sending profile > Default profile > Messages sent via**.

2 Select the message type of your choice.

A message appears in the display confirming your selection.

• FONT SIZE

From the menus, select **Messages > Message settings > Other settings > Font size > Small font** or **Large font**.

A message appears in the display confirming your selection.

• SAVE YOUR MESSAGE CENTER NUMBER

Messages sent by your phone are routed through your service provider's message center. Normally, this number is saved to your phone by your service provider. To save the number manually, do the following:

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1 From the menus, select **Messages > Message settings > Text messages > Sending profile > Default profile > Message center number**.

2 If the box in the display is empty or contains an incorrect number, enter the number given by your service provider and select **OK**.

OR

If the box in the display contains the correct number, select **OK**.

A message appears in the display confirming your number is saved.

• ORGANIZE MESSAGES WITH FOLDERS

Folders

Inbox—Messages are automatically stored in the inbox after they have been read or if you select **Exit** when **Message received** appears on the start screen.

Sent items—Messages that you send are automatically stored in this folder.

Saved items—Store saved multimedia messages.

Outbox—Multimedia messages are saved in the **Outbox** folder until they are sent.

Archive—Store messages that have been read in the **Archive** folder.

Templates—Pictures and prewritten templates are stored in the **Templates** folder. Preloaded templates can be edited and customized.

My folders—You can create new folders for storing messages.

Save messages to folders

You can save messages to an existing folder or to a folder that you created.

1 From the menus, select **Messages > Text messages > Create message**.

2 Write your message and select **Options > Save message**.

3 Select either **Archive**, **Templates**, or the name of a folder which you created.

The message is saved.

View saved messages

1 From the menus, select **Messages > Text messages > Inbox**.

2 Select the folder containing the message you wish to view.

3 Once the folder opens, select the message you wish to view.

Move a message to a folder

1 While viewing the message, select **Options > Move**.

2 Select the destination folder.

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My folders

Keep your messages organized by creating custom folders and saving some of your messages there.

ADD A FOLDER OF YOUR OWN

1 From the menus, select **Messages** > **Text messages** > **My folders**.

2 If you have not created a folder before, select **Add**.

OR

If you have already created other folders, select **Options** > **Add folder**.

3 Enter a name for the new folder and select **OK**.

The folder is added.

REMOVE A FOLDER

Only folders created in **My folders** can be deleted. The **Inbox**, **Outbox**, **Archive**, and **Template** folders are protected. When you delete a folder, all messages in the folder are also deleted.

1 From the menus, select **Messages** > **Text messages** > **My folders**.

Any folders that you have created appear in the display.

2 Scroll to the folder you wish to remove and select **Options** > **Delete folder**.

You are asked to confirm the deletion.

3 Select **OK** to delete or **Back** to exit.

• DELETE MESSAGES

If your message memory is full and you have more messages waiting at the network, blinks in the start screen. You can do the following to create more space:

- Read some of the unread messages and then delete them.
- Delete messages from some of your folders.

A single message

To delete a single message, you need to open it first.

1 From the menus, select **Messages** > **Text messages**.

2 Select the folder containing the message you want to delete.

A list of messages, if you have any, appears in the display.

3 Select the message you want to delete.

The message opens.

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4 Select **Options > Delete**.

You are asked to confirm the erasure.

5 Select **OK** to delete the message or **Back** to exit.

All messages in a folder

1 From the menus, select **Messages > Text messages > Delete messages**.

2 Select the folder containing the messages you want to delete.

You are asked to confirm your erasure.

Warning: If you select **All messages**, it deletes any messages which have been read in *all* of the folders.

3 Select **OK** to empty the folder or **Back** to exit.

• MESSAGE SETTINGS

Text, picture, and e-mail message settings

Note: Service providers may customize the text message settings interface. For more details about text message services, contact your service provider.

1 From the menus, select **Messages > Message Settings > Text messages > Sending profile**.

2 If more than one message profile set is supported by your SIM card, select the set you want to change.

3 Select one of the following:

Message center number—Save the phone number of the message center, which is necessary for sending text messages; obtain this number from your service provider.

Messages sent via—Select the message type **Text**, **E-mail**, **Page**, or **Fax**.

Message validity—Define how long the network attempts to send your messages before it gives up.

Default recipient number—Save a phone number where messages are sent by default when this sending profile is used. This option appears when the **Messages sent via** setting is **Text**.

E-mail server—Save the phone number of the e-mail server where messages are sent by default when this sending profile is used. This option appears when the **Messages sent via** setting is **E-mail**.

Delivery reports—Request the network to send delivery reports on your messages.

Use GPRS—Set GPRS as the preferred method of sending text messages.

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Reply via same center—Allow the recipient of your message to send you a reply message using your message center (network service).

Rename sending profile—Change the name of the sending profile. (The name of the default profile cannot be changed.)

4 Follow the prompts to change the selected setting.

Overwrite messages

When the message memory is full, your phone cannot send or receive any new messages. However, you can set your phone to automatically replace old messages in the **Inbox** and **Sent items** folders when new ones arrive.

1 From the menus, select **Messages > Message settings > Text messages > Overwriting in sent items** or **Overwriting in inbox**.

2 Select **Allowed** to replace the old messages with new ones in the **Sent items** or **Inbox** folder, respectively.

Multimedia message settings

1 From the menus, select **Messages > Message settings > Multimedia msgs.** and one of the following:

Save sent messages—Save sent multimedia messages to the **Sent items** folder.

Delivery reports—Request the network to send delivery reports on your messages.

Scale image down—Select whether images are scaled to a smaller size when inserted into a message.

Default slide timing—Set the default interval for slides in your presentations. Enter the time in *mm:ss* format and select **OK**.

Allow multimedia reception—Choose **Yes**, **No**, or **In home network** for your multimedia service. **In home network** cannot receive multimedia messages outside the home network.

Incoming multimedia messages—Select **Retrieve** to receive multimedia messages, or **Reject** if you do not wish to receive multimedia messages.

Connection settings—Define connection parameters for multimedia data transfer.

Allow advertisements—Enable or disable reception of automatic multimedia advertisements. This setting is not shown if **Allow multimedia reception** is set to **No**.

2 Follow the prompts to change the selected setting.

Multimedia connection settings

Contact your service provider for the settings.

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From the menus, select **Messages > Message settings > Multimedia msgs. > Connection settings > Edit active multimedia settings**; then select each of the following in turn and enter the settings provided by the service provider.

Settings' name—Rename the setting to your preference.

Homepage—Enter the homepage where your browser retrieves multimedia messages and select **OK**.

Session mode—Select session mode **Temporary** or **Permanent.**

Data bearer—Select the data bearer (always **GPRS**).

Bearer settings—Set each of the following settings for the data bearer:

- **GPRS access point**—Enter the access point name and select **OK**.
- **IP address**—Enter or change the IP address and select **OK**.
- **Authentication type**—Select either **Normal** or **Secure**.
- **User name**—Edit or enter your user name and select **OK**.
- **Password**—Edit or enter a password and select **OK**.

Receive multimedia connection settings

You may be able to receive multimedia connection settings as a text message from your service provider. For more information, contact your service provider.

• WRITE AND SEND A TEXT MESSAGE

1 From the menus, select **Messages > Text messages > Create message**.

OR

Press the **Scroll left** key at the start screen.

2 Compose a message using the keypad and select **Options > Send**.

3 Enter the recipient's phone number, or select **Find** to retrieve a number from contacts, and select **OK**.

Your message is sent.

When sending messages, your device may display the words **Message sent**. This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

• READ MESSAGES

Receive a message

When you receive a text or picture message or e-mail, **n Message(s) received** appears in the display, where **n** is the number of new messages.

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The blinking indicates that the message memory is full. Before you can receive new messages, delete some of your old messages. See "Delete messages" on page 33 for more information.

Select **Show** to view the message now, or **Exit** to view it later.

Read the message later

1 From the menus, select **Messages** > **Text messages** > **Inbox**.

2 If more than one message is received, scroll and select the message you want to read. Unread messages are indicated by .

• REPLY TO A MESSAGE

1 While viewing a message, select **Options** > **Reply**.

2 Select a **Start reply with** option:

- **Empty screen**
- **Original text**
- **Template**
- **Yes**
- **No**
- **OK**
- **Thank you**
- **Congratulations**
- **Happy birthday**
- **I love you too**
- **Hugs and kisses**
- **Sorry**
- **Sorry, I'm late**

3 Compose your reply using the keypad, then select **Options** > **Send**.

4 Enter the recipient's phone number, or select **Find** to retrieve a number from contacts.

5 Select **OK**.

• FORWARD A MESSAGE

1 While viewing a message, select **Options** > **Forward** > **Via text message** or **Via e-mail**.

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2 Follow the prompts to forward the message.

• PICTURE MESSAGES

Your phone comes with 10 preloaded pictures. You can, however, overwrite any of the 10 pictures that come with your phone. Pictures can be attached to a message and sent using a text message to compatible phones. Picture messages behave the same as text messages, but pictures take up more space than text. Pictures are stored in the **Templates** folder under **Messages > Text messages > Templates**.

Note: You cannot send a picture message using e-mail.

Download pictures

Your phone can download pictures, or receive them from compatible phones using text messaging to use in messages. You can also create pictures and send them to your phone or other compatible phones using Nokia PC Suite.

Note: This function can be used only if it is supported by your service provider. Only phones that offer compatible picture message features can receive and display picture messages. Contact your service provider for details.

Receive a picture message

When you receive a picture message, your phone beeps and **Message received** appears in the display as well the message icon ( ).

VIEW A PICTURE MESSAGE

1 Select **Show** to view the picture message, or select **Exit** to move it to your inbox.

2 If you have more than one picture message, scroll and select the message that you want to view.

Note: When you have unopened picture messages in your inbox, is shown in the upper left corner of the start screen as a reminder.

3 Use the scroll keys to view the whole picture if necessary.

4 Keep scrolling to view other information, such as the sender number and time the message was sent.

5 Once you are finished, select **Exit** to move the picture message to the inbox, or select **Options** for other choices, such as **Reply** or **Forward**.

SAVE A PICTURE FROM A PICTURE MESSAGE

1 Select **Options > Save picture**.

2 Enter a title for the picture and select **OK**.

Note: If your templates folder is full of pictures, scroll to the picture you would like to replace and select **Select**.

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Compose and send a picture message

One picture message is equivalent in size to three text messages. When you insert one of the preloaded pictures into a message, you will have enough remaining space for about 121 characters in the message. If you try to insert a picture into a message that is almost full of text, a beep sounds and you are prompted to delete some text before proceeding.

1 From the menus, select **Messages > Text messages > Create message**.

2 Write a message using the keypad (or enter nothing if you choose to just send a picture), and select **Options**.

Note: Insert pictures before adding text. You can then check remaining space for text in the upper right corner of the display.

3 Select **Insert picture**.

A list of pictures appears in the display.

4 Scroll to a picture and select **View**.

5 To insert the picture into your message, select **Insert**.

OR

To view another picture, select **Back**, scroll to another picture, and select **View**.

6 To send the picture message, select **Options > Send**.

7 Enter the phone number for your recipient, or select **Find** to retrieve a number from contacts, and select **OK**.

When sending messages, your device may display the words **Message sent**. This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

Preview, change, or delete a picture message

1 After a picture has been inserted into your message, select **Options** at the message edit screen.

2 Select one of the following options:

Preview—Preview the inserted message before sending. Select **Back** to return to the list of options.

Change picture—Go back to the picture list. Scroll to highlight a new picture, select **View** and then select **Insert** to replace the previous picture in your message.

Delete picture—Select **OK** to delete the picture from your message, or select **Back** to return to the list of options.

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• E-MAIL

You can send e-mail up to 160 characters in length (including the e-mail address) to anyone with an e-mail address. First, you will need to set up an e-mail profile and modify a few other settings. It takes just a few minutes, and you only need to do this once. See "Text, picture, and e-mail message settings" on page 34.

Note: You cannot insert pictures into e-mail.

Write and send e-mail

1 From the menus, select **Messages > Text messages > Create SMS e-mail**.

2 Enter the e-mail address, or select **Find** to retrieve an e-mail address from contacts, and select **OK**.

3 Enter a subject for the e-mail and select **OK**.

4 Compose your e-mail, leaving enough space in the total character count (160) for the e-mail address, and select **Options > Send e-mail**.

5 Enter the e-mail server number and select **OK**.

When sending messages, your device may display the words **Message sent**. This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

• MULTIMEDIA MESSAGES

This is a network service.

Note: Only devices that offer compatible multimedia message or e-mail features can receive and display multimedia messages. Multimedia message objects may contain viruses or otherwise be harmful to your device or PC. Do not open any attachment if you are not sure of the trustworthiness of the sender.

A multimedia message can contain text, one image, and one sound clip. Your phone can send and receive multimedia messages that are up to 100 KB. If the maximum size is exceeded, the phone may not be able to receive the message. Depending upon your network, you may receive a message that includes an Internet address where you can go to view the multimedia message. Pictures are scaled to fit the display area of the phone. Your phone has a multimedia message viewer for playing messages and a multimedia inbox for storing saved messages. Once you save the multimedia message, you can use the image as a screen saver or the sound as a ringing tone.

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Multimedia messages cannot be received during a call, while using a game or other Java application, or when you are in an active browsing session using the GSM data bearer.

Because delivery of multimedia messages can fail for a variety of reasons, do not rely solely on them for essential communication.

The default setting of the multimedia message service is generally on.

The appearance of a multimedia message may vary depending on the receiving device.

If a received message contains unsupported elements, they may be replaced with the text **Object format not supported**.

Before you can use the multimedia message feature, you must define the multimedia message settings. See "Multimedia message settings" on page 35 for more information.

Write and send

For availability and subscription to the MMS, contact your service provider.

1. From the menus, select **Messages > Multimedia msgs. > Create message**.
2. Enter the text of your message and select **Options >Insert > Image** or **Sound clip**.

   The list of available folders in the **Gallery** is shown.
3. Open the desired folder, scroll to the image or sound clip, and select **Options > Insert**.

   The indicator in the header of the message indicates that a picture or sound clip has been attached.

   Copyright protections may prevent some images, ringing tones, and other content from being copied, modified, transferred, or forwarded.
4. To add a new page (also called a "slide") to the message, select **Options > Insert > Slide**.

   Each slide can contain text, one image, and one sound clip. If the message contains several slides, you can open the desired slide by selecting **Previous slide**, **Next slide**, or **Slide list**.
5. To set the time interval between the slides, select **Options > Slide timing**.
6. To move the text to the top or bottom of the message, select **Options > Text on top** or **Text on bottom**.
7. To insert a name from contacts, select **Options > More options > Insert contact**.
8. Scroll to the desired name and select **Options > Insert contact**.
9. To insert a number, select **Options > More options > Insert number**, enter the number or search for it in contacts, and select **OK**.
10. To delete an image, slide, or sound clip from the message, select **Options > Delete > Image**, **Sound clip**, or **Slide**.

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11 To add a subject to the message, select **Options >More options > Edit subject**, enter a subject, and select **OK**.

12 To view the message before sending it, select **Options > Preview**.

13 To save the message to the **Saved items** folder, select **Options > Save message**.

14 To send the message, select **Options > Send to number**, **Send to e-mail**, or **Send to many**.

Note: If you have attached a picture to the message, you cannot send the message using e-mail.

15 Enter the recipient's number or e-mail address, or search for it in contacts, then select **OK**.

The message is moved to the **Outbox** folder for sending.

Note: It takes more time to send a multimedia message than to send a text message. While the multimedia message is being sent, the animated indicator is displayed and you can use other functions on the phone. If there is an interruption while the message is being sent, the phone tries to resend it a few times. If this fails, the message remains in the **Outbox** folder and you can try to resend it later. Check your **Outbox** folder for unsent messages.

When sending messages, your device may display the words **Message sent**. This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

Read and reply

When a multimedia message is being received, the animated indicator appears in the display. Once the message has been fully downloaded, and **Multimedia message received** appear in the display.

If the indicator blinks, the memory for multimedia messages is full. You must delete old messages before you can receive new ones. See "Delete messages" on page 33.

1 To view the message immediately, select **Show**. To view the message later, select **Exit**.

2 While viewing the message, select **Options** and one of the following:

Delete message—Delete a saved message.

Reply or **Reply to all**—Reply to the message. Select **Options** and then **Send**. The sender's phone number or e-mail is used as the default.

Forward to number—Forward the message to another number.

Forward to e-mail—Forward the message to an e-mail address.

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Forward to many—Forward the message to multiple recipients.

Message details—View the message subject, size, and class.

Play presentation—View the slides of the message in sequence.

Continue present.—Continue to view the message after stopping it.

View text—View the text part of the message.

Open image—View the image included in the message. Select **Options** to zoom the image, save it in the gallery, set its contrast, or view its details.

Open sound clip—Select Options to play the sound clip, save it in the gallery, or view its details.

Copyright protections may prevent some images, ringing tones, and other content from being copied, modified, transferred, or forwarded.

• VOICE MESSAGES

If you subscribe to voice mail, your service provider will furnish you with a voice mailbox number. You need to save this number to your phone to use voice mail. When you receive a voice message, your phone lets you know by beeping, displaying a message, or both. If you receive more than one message, your phone shows the number of messages received.

Save your voice mailbox number

Your service provider may have already saved your voice mailbox number to your phone. If so, the number will appear in the display in step 2. Select **OK** to leave the number unchanged.

1 From the menus, select **Messages** > **Voice messages** > **Voice mailbox number**.

After a brief pause, the **Mailbox number** screen appears.

2 If the box is empty, enter the voice mailbox area code and number and select **OK**.

The phone confirms that the number has been saved.

Save yourself the trouble of entering the mailbox codes each time you dial voice mail. See "Automate voice mail" on page 44.

Call and set up your voice mail

1 Once you have saved the voice mailbox number, press and hold the **1** key.

2 When you connect to voice mail and the prerecorded greeting begins, follow the service's automated instructions to set up your voice mail.

Listen to your voice messages

Once you have set up voice mail, you can dial the number in one of four ways:

- Dial the number using the keypad.

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- Press and hold the **1** key.
- Select **Listen** if there is a notification message in the display.
- From the menus, select **Messages > Voice messages > Listen to voice messages**.

Once you connect and the prerecorded greeting begins, follow the automated instructions to listen to your voice messages.

Automate voice mail

You can insert special characters called dialing codes into phone numbers such as voice mail and then save the number to a 1-touch dialing location. Dialing codes instruct the receiving system to pause, wait, bypass, or accept the numbers that follow them in the dialing string.

Note: Each voice mail service can vary. The examples and steps that follow are for clarification. Check with your service provider if you have specific questions about your voice mail service.

WRITE DOWN SOME INFORMATION

You will need this information in "Set up voice mail with dialing codes" on page 45. Be sure to record all of the information correctly.

1. Write down your voice mailbox number.
2. Call and check your voice mail as you normally would.
3. Write down your interaction with the recorded prompts step-by-step. Keep in mind that each voice mail service may vary. However, it should look something like this:

   Dial 2145551212, pause 5 seconds, press 1, pause 2 seconds, press 1234, press # key.

INSERT DIALING CODES

Press the * key repeatedly to cycle through dialing codes. Once the desired code appears in the display, pause briefly and the code is inserted into the dialing string.

For example, press the * key four times to display **w** (wait character). Pause briefly and the wait character is inserted into the dialing string. Available dialing codes are as follows:

***** Bypasses a set of instructions.

+ Precedes an international telephone number.

p Pauses for 2.5 seconds before sending any numbers that follow.

w Wait. Your phone waits for you to press the **Talk** key before it sends any numbers or codes that follow.

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SET UP VOICE MAIL WITH DIALING CODES

1. At the start screen, select **Contacts > 1-touch dialing**.
2. Scroll to an empty 1-touch dialing slot and select **Assign**.
3. Enter your voice mailbox number, including the area code.
4. Enter any dialing codes as necessary.

   For example, if you pause for 5 seconds after connecting to voice mail, enter **p** twice *after* the voice mailbox number, such as 2145551212**pp**.
5. Enter any remaining pauses, PIN codes, and other information that allows you to listen to your messages, and select **OK**.
6. Enter a name (such as Voice Mail) and select **OK**.

   A message appears in the display confirming your 1-touch dialing location has been saved.
7. To dial and listen to your voice mail, select and hold the assigned 1-touch dialing key at the start screen.

   No other keypresses should be necessary to connect and listen to your messages.

• INFO MESSAGE SERVICE

With the info message network service, you can receive short text messages from your service provider on various topics, such as weather and traffic conditions. Contact your service provider for more information.

From the menus, select **Messages > Info messages**, and one of the following:

Info service—Select **On** or **Off** to activate or deactivate the service, or **Topic index** to activate index reception.

Topics—Add, select, edit, and delete info topics.

Language—Select the language in which info messages are received. The language you select does not affect the language you select under the **Phone settings menu.**

Info topics saved on SIM card—Select one or more info topics to save to your SIM card.

Read—Read messages received from your service provider. This option only appears if info messages have been received.

• SERVICE COMMANDS

Use the **Service commands** editor to enter and send service requests (also known as USSD commands) to your service provider. Contact your service provider for information about specific service commands.

1. From the menus, select **Messages** > **Service commands**.
2. In the **Message** edit screen, enter a service request, such as an activation command for a specific network service, and select **Send**.

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8 Call log (Menu 2)

Call log stores information about up to the last 10 missed, 10 received, or 10 dialed calls. It also adds the total duration of all calls. When the number of calls exceed the maximum, the most recent call replaces the oldest. For Call log to work properly:

- Your service provider must support caller ID, and it must be enabled.
- Your calls cannot be blocked.
- Your phone must be on and within the service area.

Note: Some timers may be reset during service or software upgrades.

• OPTIONS

The following options are available from the call log menu:

Missed calls—Show the phone numbers of unanswered incoming calls.

Received calls—Show the phone numbers of the most recently answered incoming calls.

Dialed numbers—Show the most recently dialed numbers.

Delete recent call lists—Clear phone numbers from recent call lists.

Call timers—View the duration of recent calls and clear the call timers.

GPRS data counter—Show the amount of sent and received GPRS and EDGE data and reset the counters.

GPRS connection timer—Show the duration of GPRS and EDGE data connections and reset the timers.

• VIEW CALLS OPTIONS

Whether you are viewing missed, received, or dialed calls, the menu options are the following:

Call time—Display the date and time of the call.

Send message—Send a message to the number.

View number—Display the number.

Edit number—Edit the number and associate a name with the number.

Save—Enter a name for the number and save it to contacts.

Add to contact—Add the number to an existing entry in contacts, if the number is not associated with a name.

Delete—Clear the number from memory.

Call—Call the number.

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• MISSED CALLS

Missed calls are calls that were never answered. You can check for missed calls in two ways:

Note: The missed calls feature does not function while your phone is off or outside of the service area.

1 If **# missed call** appears in the display, select **List**.

The phone number appears in the display.

2 Select **Options**, then select the desired option from the list.

See "View calls options" on page 46.

OR

1 From the menus, select **Call log** > **Missed calls**.

2 Scroll to a name or number and select **Options** and the desired option from the list.

See "View calls options" on page 46.

• RECEIVED CALLS

Received calls are calls that have been answered.

1 From the menus, select **Call log** > **Received calls**.

2 Scroll to a name or number and select **Options** and the desired option from the list.

See "View calls options" on page 46.

• DIALED NUMBERS

You can view dialed numbers in one of two ways:

1 At the start screen, press the **Talk** key.

OR

From the menus, select **Call log** > **Dialed numbers**.

2 Scroll to a name or number and select **Options** and the desired option from the list.

See "View calls options" on page 46.

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• CALL TIMES

You can receive up to five calls from the same number and view the time each call occurred. Your clock must be set for this feature to work accurately. See "Set the clock" on page 16 for instructions on setting your clock.

Note: The actual time invoiced for calls by your service provider may vary, depending on network features, rounding off for billing, and so forth.

1 While viewing dialed numbers or a missed or received call, select **Options > Call time**.

The time that the last call occurred appears in the display.

2 Press the **Scroll down** key to view other call times from this number.

3 Select **Back** to return to the options list.

• DELETE CALL LISTS

To clear any missed, dialed, or received calls from phone memory, select **Call log > Delete recent call lists > All**, **Missed**, **Received**, or **Dialed**.

• CALL DURATION

From the menus, select **Call log > Call timers** and one of the following:

Duration of last call—Show the duration of the last call received.

Duration of received calls—Show the duration of all received calls.

Duration of dialed calls—Show the duration of all dialed calls.

Duration of all calls—Show the duration of all calls (missed, dialed, and received).

Clear timers—Reset all call timers to zero.

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9 Contacts (Menu 3)

You can save names and phone numbers in the phone memory and in the SIM card memory. The number of contacts that can be saved depends on their length, and the number and length of related phone numbers and text items. The phone supports SIM cards that can save up to 250 names and phone numbers.

Contacts saved in the phone memory use shared memory.

• MENU

From the menus, select **Contacts** and one of the following:

Find—Find a name or select from a list.

Add contact—Add a name to contacts.

Delete—Delete a name and its associated numbers.

Copy—Copy entries from phone memory to SIM and vice versa.

Settings—Set memory in use (**Phone**, **SIM card**, or **Phone and SIM**), change contacts view, and check the memory status of your phone and SIM card.

1-touch dialing—Display the list of 1-touch dialing numbers saved to memory.

Info numbers—Display a list of information numbers related to your service provider (if available).

Service numbers—Display a list of service numbers related to your service provider (if available).

Own numbers—View the numbers assigned to your SIM card.

Caller groups—View and edit the properties (such as the ringing tone) for any of the caller groups.

• TYPES OF INFORMATION

Each contact entry can contain one or more of the following types of information:

- General phone number
- Mobile phone number
- Home phone number
- Work phone number

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Fax number

E-mail address

Web address

Street address

Note

• SAVE INFORMATION

You can save names and numbers to phone memory or to SIM memory.

Quickly save a name and number

1 At the start screen, enter the phone number you wish to save.

2 Select **Options > Save**.

3 Enter a name for the number and select **OK**.

A confirmation message appears in the display indicating your entry has been saved.

Quickly save (only) a number

You can save a phone number as a stand-alone entry in contacts.

1 At the start screen, enter the number you wish to save.

2 Select and hold **Options**.

A message appears in the display confirming your number is saved.

Save an entry

1 At the start screen, select **Contacts > Add contact**.

2 Enter a name and select **OK**.

3 Enter a number and select **OK**.

4 Select **Done** to return to the start screen.

Save multiple numbers and text items

For each entry in phone memory, you can save different types of phone numbers and short text items. (SIM card memory can have only one name and number per entry.) The first number you save for any entry is automatically set as the default, or primary number. It is indicated with a frame around the number type indicator.

1 Make sure that the memory in use is either **Phone** or **Phone and SIM**.

See "Select contacts view and memory" on page 56.

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2 At the start screen, press the **Scroll down** key and scroll to the entry to which you wish to add a number or text item.

3 Select **Details** > **Options** > **Add number** or **Add detail** and the desired number or text type.

See "Types of information" on page 49.

4 Enter a number, address, or note, and select **OK**.

5 To change the number or text type, with a contact entry highlighted, select **Options** > **Change type** and the desired type.

6 Press the **End** key to return to the standby mode.

Save addresses and notes

To save an e-mail address, you will need to add it to an existing entry (name).

1 Find the entry (name) in contacts to which you would like to add an address or note.

2 With the entry highlighted, select **Details** > **Options** > **Add detail** > **E-mail address**, **Web address**, **Street address**, or **Note**.

3 Enter the text for the note or address and select **OK**.

• CHANGE THE DEFAULT (PRIMARY) NUMBER

1 At the start screen, press the **Scroll down** key, scroll to the entry you want to change, and select **Details**.

2 Scroll to the number you wish to set as default and select **Options** > **As primary number**.

• SEARCH FOR AN ENTRY

1 At the start screen, press the **Scroll down** key to display the contents of contacts.

2 Press the key which corresponds to the first letter of the name for which you are performing a search.

The icon appears at the bottom of the display to indicate you are performing a search.

3 Press the **Scroll up** key or the **Scroll down** key to scroll up and down through names and numbers in the list.

4 Select **Details** to view the details of the selected entry.

5 Use the **Scroll up** and **Scroll down** keys to scroll through the details of the entry, if necessary.

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• MAKE A CALL

At the start screen, press the **Scroll down** key, scroll to the entry for the person you want to call, and press the **Talk** key.

The phone dials the primary number for the contact.

• ADD AN IMAGE TO A NAME OR NUMBER

You can add an image to a name or number saved in phone memory. The image is displayed when you receive a call from that phone number.

1. At the start screen, press the **Scroll down** key.
2. Scroll to the name or number to which you want to add an image, and select **Details** > **Options** > **Add image**.

   The display shows the list of folders in the **Gallery**.
3. Scroll to a folder that contains images and select **Open**.
4. Scroll to the desired image and select **Options** > **Save to contacts**.

   A copy of the image is added to the contact.

Note: You can use the phone to take a photo and attach it to the contact. See “Take a photo” on page 76 for more information.

• EDIT AN ENTRY

1. At the start screen, press the **Scroll down** key.
2. Scroll to the entry that you want to edit and select **Details**.
3. Scroll to the item you want to edit, and select **Options**.

   The list of available options varies according to the type of item selected.
4. Select an option and follow the prompts to edit the item.

• DELETE NAMES AND NUMBERS

1. At the start screen, select **Contacts** > **Delete**.
2. To delete individual names and numbers, select **One by one**.
3. Scroll to the entry you wish to delete, select **Delete** > **OK** to confirm the deletion.
4. To delete the entire contents of contacts, select **Delete all** > **Phone** or **SIM card** > **Delete** > **OK**.

   You are asked to enter the security code.
5. Enter the security code and select **OK**.

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• COPY ENTRIES

1 At the start screen, select **Contacts > Copy > From phone to SIM card** or **From SIM card to phone** and one of the following:

One by one—Selects and copies entries one by one. Go to step 2.

All—Copies all entries from the SIM card or phone. Go to step 3.

Primary numbers—Copies only primary numbers. This appears only if you selected **From phone to SIM card**. Go to step 3.

2 Scroll to the entry you wish to copy and select **Copy > Keep original** or **Move original**.

Warning: Select **Keep original** if you are unsure of which copy method to use. This ensures original entries are merely copied to the new location. **Move original** deletes files after copying.

The entry is copied and you are returned to the list of contacts entries.

3 If you selected **All** or **Primary numbers** in step 1, select **Keep original** or **Move original > OK** to confirm your choice.

All entries are copied to the selected destination.

4 Select **Back** to return to the list of contacts entries, or press the **End** key to return to the start screen.

• BUSINESS CARDS

You can send and receive an entry in contacts using IR or text message, if supported by your service provider.

Receive a business card using IR

1 From the menus, select **Settings > Connectivity > Infrared** to ensure IR is activated.

IR remains active for 2 minutes.

When you receive the business card, your phone beeps and a message appears in the display.

2 Select **Save** to save the business card in phone memory, or select **Exit > OK** to discard the business card.

Send a business card

You can send a business card using IR or as a text message to a compatible phone or other handheld device.

1 Highlight an entry from contacts that you wish to send and select **Details > Options > Send bus. card**.

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2 To send the business card using IR, make sure the receiving device is set up to receive data using its IR port and select **Via infrared**.

OR

To send the business card as a message, select **Via text message**.

If you are sending the business card using IR, the phone makes the IR connection and sends the business card. If you are sending the business card as a text message, continue to the next step.

3 Enter the number for your recipient or select **Find** to retrieve a number from contacts.

4 Select **OK**.

The business card is sent.

• 1-TOUCH DIALING

You can associate any entry in contacts with a key from **2**–**9**, and dial those entries by pressing and holding the assigned key.

Assign a key

1 At the start screen, select **Contacts > 1-touch dialing**.

2 Scroll to any empty slot and select **Assign**.

3 Enter the number (including the area code) and select **OK**, or select **Find** to retrieve a number from contacts.

4 Enter a name for the number and select **OK**.

If 1-touch dialing is off, the phone displays a prompt asking if you would like to turn 1-touch dialing on.

5 Select **Yes** to activate 1-touch dialing.

The entry appears in the slot you have assigned.

Make a call

Press and hold the key to which an entry has been assigned. Your phone dials the entry assigned to the key.

Change numbers

1 At the start screen, select **Contacts > 1-touch dialing**.

2 Scroll to the 1-touch dialing entry you wish to change and select **Options > Change**.

3 Enter the new number, or select **Find** to retrieve a number from contacts, and select **OK**.

4 Enter a name for the entry and select **OK**.

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Delete numbers

1 At the start screen, select **Contacts > 1-touch dialing**.

2 Scroll to the 1-touch dialing location you wish to delete and select **Options > Delete**.

You are asked to confirm the deletion.

3 Select **OK** to delete the key assignment.

• INFO, SERVICE, AND OWN NUMBERS

Your service provider may have saved the operating number of your phone, as well as various information and service numbers to your SIM card.

Note: This feature may not be supported by your SIM card. Contact your service provider for more information.

1 At the start screen, select **Contacts** and one of the following number types:

Info numbers—Contact your service provider to obtain information.

Service numbers—Contact your service provider to obtain service.

Own numbers—Display the operating number, or numbers which have been assigned to your phone by your service provider.

2 To view details of any of the number types in the previous table, select **View** when the number type appears in the display.

• CALLER GROUPS

You can add contacts entries to any of five caller groups, and then assign a unique ringing tone or graphic to that group. This enables you to identify callers from the group by their unique ringing tone or graphic. A caller group can be as small as one person or as large as the contacts list. You can rename caller groups to suit your preference.

Set caller group options

1 At the start screen, select **Contacts > Caller groups > Family**, **VIP**, **Friends**, **Business**, or **Other**.

2 Select one of the following caller group options:

Rename group—Rename the group to your preference.

Group ringing tone—Set the ringing tone for the group.

Group logo—View the graphic for the caller group, and turn it on or off.

Group members—Add or remove members from the caller group.

3 Follow the prompts to set the option according to your preference.

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Add a contact to a caller group

1 Recall a name you want to add to a caller group and select **Details > Options > Caller groups**.

2 Select the caller group to which you want to add the name.

A confirmation message appears in the display.

• SELECT CONTACTS VIEW AND MEMORY

At the start screen, select **Contacts > Settings** and one of the following:

Memory in use—Select the memory you wish to use. Options are **Phone**, **SIM card**, or **Phone and SIM** combined. With **Phone and SIM** selected, names and numbers are saved to phone memory but entries saved to both memories appear in the display.

Contacts view—Select the **Name list**, **Name and number**, **Name only**, or **Name and image** view.

Memory status—View the amount of phone or SIM memory used and available.

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10 Settings (Menu 4)

Use this menu to set or change your personal shortcuts, time and date settings, call settings, phone settings, display settings, tone settings, enhancement settings, security settings, and to restore factory settings.

• OVER THE AIR (OTA) SETTINGS SERVICE

To use browsers, MMS, GPRS, and other wireless services, you must have the proper settings on your phone. If you receive the settings directly as an OTA message, then you need only to save the settings on your phone. For more information about the availability of the settings, contact your service provider or nearest authorized Nokia dealer.

• PROFILES

Profiles define how your phone reacts when you receive a call or a message, how your keypad sounds when you press a key, and more. Ringing options, keypad tones, and other settings for each of the five available profiles can be left at their default setting, or customized to suit your needs. Select and customize the most suitable profile for your situation, such as when you are in a meeting or outdoors. The profiles available are **Normal**, **Silent**, **Meeting**, **Outdoor**, and **Pager**.

Note: Profiles are also available for enhancements such as a headset and car kit. See "Enhancement settings" on page 70 for more information about enhancement profiles.

Select a profile

1 At the start screen, briefly press the **Power** key.

2 Select a profile from the list.

Customize a profile

You can customize any of the profiles a variety of ways.

1 From the menus, select **Settings > Profiles**.

2 Select the profile you want to customize, select **Customize** and one of the following:

Ringing options—Select the ringing tone style.

Ringing tone—Select the ringing tone for incoming calls.

Ringing volume—Set the volume of your ringing tone.

Vibrating alert—Turn the vibrating alert on or off.

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Message alert tone—Select the tone for received messages.

Keypad tones—Set the volume of your keypad tones (or turn them off).

Warning tones—Turn warning and confirmation tones on or off.

Alert for—Define which caller groups the selected profile will accept or decline. See "Caller groups" on page 55 for more information.

Profile name—Rename the profile (up to 16 characters). You cannot rename the Normal profile.

Set a timed profile

Timed profiles can be used to prevent missed calls. For example, suppose you attend an event that requires your phone be set to **Silent** before the event starts, but you forget to return it to **Normal** until long after the event. During this time, you have missed several calls because the ringing tone was silent. A timed profile can prevent this by automatically returning your phone to the default profile at a time you specify.

Note: Timed profiles can be set up to 24 hours in advance.

1 From the menus, select **Settings** > **Profiles**.

2 Select a profile and **Timed**.

3 Enter the time for the profile to expire and select **OK**.

The profile you have set for expiration is now active and appears in the start screen along with a small clock icon.

• TONE SETTINGS

You can adjust the ringing volume, keypad tones, and more for the active profile. See "Customize a profile" on page 57.

• DISPLAY SETTINGS

Wallpaper

You can set your phone to display a background picture (wallpaper) on the start screen. Some pictures are presaved in the **Gallery** menu. You can also take pictures with the built-in camera, receive pictures using multimedia messaging, download them from browser pages or transfer them with PC Suite from your PC and then save them in the **Gallery**. Your phone supports JPEG, GIF, BMP, PNG, and WBMP formats.

SELECT

1 From the menus, select **Settings** > **Display settings** > **Wallpaper** > **Select wallpaper**.

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2 Scroll to a folder that contains graphics or images and select **Open**.

3 Scroll to the image of your choice and select **Options > Set as wallpaper**.

4 If **Replace current wallpaper?** appears in the display, select **OK**.

A message appears in the display confirming your selection.

ACTIVATE OR DEACTIVATE

1 From the menus, select **Settings > Display settings > Wallpaper**.

2 Select **On** to activate or **Off** to deactivate.

Select color scheme

You can change the color of some display components in your phone, such as indicators and signal bars.

1 From the menus, select **Settings > Display settings > Color Schemes**.

2 Select the color scheme of your choice.

A message appears in the display confirming your selection.

Show or hide operator logo

This is a Network Service. If supported by your service provider, you can choose whether the display shows the operator logo when the phone is in the standby mode.

1 From the menus, select **Settings > Display settings > Operator logo**.

2 Select **On** to show the logo, or **Off** to hide the logo.

A message appears in the display confirming your selection.

Set screen saver timeout

The screen saver is activated when no function of the phone is used after a preset period of time. Press any key to deactivate the screen saver. The screen saver is also deactivated when the phone is out of the network coverage area.

You can set your phone to display a screen saver after a preset time or after a custom time (up to 60 minutes) of your choosing.

1 From the menus, select **Settings > Display settings > Screen saver timeout**.

2 Select **2 minutes** or **5 minutes**.

OR

If you want to set a custom time (up to 60 minutes), select **Other**, then enter the custom time and select **OK**.

A message appears in the display confirming your selection.

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Change display brightness

You can change the brightness of the display.

1 From the menus, select **Settings > Display settings > Display brightness**.

After a brief pause, a bar chart appears in the display indicating the current brightness level.

2 Use the **Scroll left** and **Scroll right** keys to adjust the contrast level to your preference.

3 Select **OK** to accept your settings.

Select menu view

You can select either the **List** interface or the **Grid** interface.

From the menus, select **Settings > Display settings > Menu view > List** or **Grid**.

• TIME AND DATE SETTINGS

Show or hide the clock

You can display or not display the clock on the start screen.

From the menus, select **Settings > Time and date settings > Clock > Hide clock** or **Show clock**.

If the clock was previously hidden (not shown on the display), it will now appear in the upper right corner of the start screen.

If the clock was previously shown in the display, it will now be hidden from view.

Set the clock

1 From the menus, select **Settings > Time and date settings > Clock > Set the time**.

2 Enter the time in *hh:mm* format, and select **OK > am** or **pm**.

Change the time format

You can set the time format for am/pm or 24-hour format (military time).

From the menus, select **Settings > Time and date settings > Clock > Time format > 24-hour** or **12-hour**.

A message appears in the display confirming your selection.

Show or hide the date

You can display or not display the date on the start screen.

From the menus, select **Settings > Time and date settings > Date > Hide date** or **Show date**.

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If the date was previously hidden (not shown on the display), it will now appear in the center of the start screen.

If the date was previously shown in the display, it will now be hidden from view.

Set the date

1 From the menus, select **Settings > Time and date settings > Date > Set the date**.

2 Enter the date and select **OK**.

The date is set.

Set or change the date format

1 From the menus, select **Settings > Time and date settings > Date > Date separator**.

2 Select the separator of your choice (period, slash, or hyphen).

A message appears in the display confirming your selection.

3 Select **Date > Date format**.

4 Select the format of your choice.

A message appears in the display confirming your selection.

Automatic update of date and time

This is a Network Service. You can set the phone to update the date and time from the network when you turn the phone on. If the clock in your phone is 30 seconds or more off the network time, the phone will automatically update to reflect the network time.

From the menus, select **Settings > Time and date settings > Auto-update of date & time** and one of the following:

On—Update the time automatically.

Confirm first—Request confirmation before updating the time. You can accept or decline the update.

Off—Do not automatically update the time.

• PERSONAL SHORTCUTS

You can change the function of the **Right selection** key so that your most frequently used functions can be quickly accessed from the start screen. This list of functions is called the **Go to** menu. You can also select an operator-specific name for the **Right selection** key to be displayed in the start screen.

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Choose functions for the Go to menu

1 From the menus, select **Settings** > **Personal shortcuts** > **Select options**.

A list of functions is displayed.

2 Scroll to the desired function from the list and select **Mark**.

A mark appears in the box next to the selected function indicating that you have selected the function. Select **Unmark** to remove a function from the list.

3 Repeat the previous step to select or remove as many functions as you wish.

4 Select **Done** when you have added all desired functions.

5 When **Save changes?** appears in the display, select **Yes**.

Organize functions

1 From the menus, select **Settings** > **Personal shortcuts** > **Organize Go to options**.

The list of functions is displayed.

2 Scroll to the function you wish to rearrange; then select **Move**.

3 Select **Move up**, **Move down**, **Move to top**, or **Move to bottom** from the list of choices.

The list of right selection key functions is displayed in the new order.

4 Select **Done**.

A confirmation message appears.

5 Select **Yes**.

The changes are saved.

Set the Right selection key

1 From the menus, select **Settings** > **Personal shortcuts** > **Right selection key**.

2 Select either an operator-specific name (if available) or one of the functions in the list.

The selected name or function will appear over the **Right selection** key in the start screen.

If you selected **Go to**, the **Right selection** key takes you to the list of functions you selected for the **Go to** menu. If you selected one of the other functions, the **Right selection** key takes you directly to that function. If you selected an operator-specific name, the **Right selection** key takes you to the operator's WAP site.

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• CONNECTIVITY

In this menu you can connect the phone to a compatible device using an IR connection. You can also define when the phone connects to the (E)GPRS network.

You can make a serial connection between your phone and a PC using the DKU-5 data cable, which is available for purchase as an enhancement. Once you establish this connection, you can access phone information from your PC. It may also be possible to make this same serial connection between your phone and an IR-equipped laptop or IR-equipped desktop PC using the IR port.

For more information, see the PC Suite 5.7 User Guide and PC Connectivity Guide. The guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of **www.nokia.com**.

Infrared

You can set up the phone to receive data through its IR port. To use an IR connection, transmission and reception must be to or from an infrared compatible phone or device. You can send or receive data such as business cards and calendar notes to or from a compatible phone or data device (such as a computer) using the IR port of your phone.

Do not point the IR beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 laser product.

SEND AND RECEIVE DATA

1 Ensure that the IR ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices.

The preferable distance between the two devices in an IR connection is from 3 inches to 3 feet.

2 Activate IR in your phone by selecting **Settings > Connectivity > Infrared** from the menus.

3 The user of the other device should activate IR as well.

If data transfer is not started within two minutes after the activation of the IR port, the connection is cancelled and must be restarted.

During data transfer, the phone should be on a stationary surface and should not be moved.

CONNECTION INDICATOR

- When is shown continuously, the IR connection is activated and your phone is ready to send or receive data using its IR port.
- When blinks, your phone is trying to connect to the other device or a connection has been lost.

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GPRS, EDGE, CSD

With your phone you can use general packet radio service (GPRS), and circuit switched data (CSD).

With GPRS, you can stay connected to the Internet and allow for faster downloads without completing a dial-up connection. Applications using GPRS include the browser, and text messaging.

Enhanced GPRS (EGPRS), also known as EDGE (enhanced data rates for GSM evolution) is similar to GPRS but the connection is up to 3 times as fast.

To use the EDGE service, subscribe to it from your service provider and save the GPRS settings for the functions that you want to use over the EDGE network. For information on pricing, availability, and data transfer speed, contact your service provider.

When you have selected GPRS as a data bearer, the phone uses EDGE instead of GPRS if this is available in the network. You cannot choose between EDGE and GPRS, but for some applications, such as browsing WAP or XHTML pages, you may be able to select either GPRS or CSD.

DEFINE GPRS CONNECTION

Depending on your service, you may be able to define when the phone connects to the GPRS or EDGE network.

From the menus, select **Settings > Connectivity > GPRS > GPRS Connection** and one of the following:

When needed—The phone registers and connects to the GPRS or EDGE network only if you use a function that needs the GPRS service. Establishing a connection may take longer than when **Always online** is selected.

Always online—The phone automatically registers to a GPRS or EDGE network when you switch the phone on, if the network is available in your location.

GPRS ICONS

The following icons appear in the upper left corner of the screen to show you the status of your GPRS connection.

Indicates that the GPRS connection mode is **Always online** and the GPRS service is available.

Indicates that the GPRS connection has been interrupted by a voice call or text message. The phone tries to reestablish the connection after the call.

Indicates an active GPRS connection, for example, when you are using the browser.

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Data communication applications

For information on using a data communication application, refer to the documentation provided with the application.

If you use an IR connection, activate the IR connection in your phone by selecting **Settings > Connectivity > Infrared** from the menus. Also, make sure that the connection is active in your PC.

For better performance during data calls using an IR connection, place the phone on a stationary surface. Do not move the phone during a data call.

If you use the DKU-5 data cable:

1 Connect the cable to the USB port on your computer and to the connector on your phone.

2 Start using the data communications application on the computer.

Note: Making or answering phone calls during a computer connection is not recommended as it might disrupt the operation.

• CALL SETTINGS

Call forwarding

Call forwarding tells your network to redirect incoming calls to another number.

Call forwarding is a Network Service and may not work the same in all networks. Contact your service provider for availability.

ACTIVATE CALL FORWARDING

1 From the menus, select **Settings > Call settings > Call forwarding** and one of the following:

Forward all voice calls—Forward all calls to the number you specify.

Forward if busy—Forward incoming calls when you are in a call.

Forward if not answered—Forward incoming calls to another number if you are unable to answer. You can also set a delay before forwarding takes place.

Forward if out of reach—Forward incoming calls when your phone is off.

Forward if not available—Forward calls that are not picked up. You can also set a delay before forwarding takes place.

Forward all fax calls—Forward all fax calls to a fax mailbox.

Forward all data calls—Forward all data calls to a data mailbox.

Cancel all call forwarding—Cancel any call forwarding options you may have set.

2 Select **Activate**.

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3 Select the destination to which your calls will be forwarded.

4 Enter the number to which your calls, data, or other information will be forwarded and select **OK**.

5 Select the delay time.

Your phone calls the network to activate the feature you have requested. The network sends a confirmation note when the feature has been activated successfully.

CANCEL CALL FORWARDING

From the menus, select **Settings > Call settings > Call forwarding > Cancel all call forwarding**.

Note: Cancel all call forwarding may affect your ability to receive voice mail messages. Contact your service provider for specific details.

Automatic volume control

Automatic volume control automatically adjusts the phone earpiece volume according to the noise level in your environment and the volume of the speaker on the other end of the call. For example, if you are in a noisy environment, the volume is increased. If the person you are speaking with is shouting loudly, the volume is decreased.

Automatic volume control is not available if you are using a headset or other accessory.

USING THE MENU

1 From the menus, select **Settings > Call settings > Automatic volume control**.

2 Select **On** to activate, or **Off** to deactivate. The default setting is **Off**.

DURING A CALL

Note: Setting automatic volume control during an active call affects only the current call.

1 During a call, select **Options**.

2 Select **Auto volume on** to activate, or **Auto volume off** to deactivate.

If you increase the volume during an active call by pressing the **Right scroll** key, the phone volume level increases regardless of whether or not automatic volume control is activated.

When you end the call, the volume returns to the level set before automatic volume control was activated.

Anykey answer

Anykey answer allows you to answer an incoming call by briefly pressing any key except the power key, the selection keys, and the **End** key.

From the menus, select **Settings > Call settings > Anykey answer > On** or **Off**.

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Automatic redial

Occasionally, your network may experience heavy traffic, resulting in a "fast" busy signal when you dial. With automatic redial activated, your phone redials the number up to 10 times, and notifies you once the network is available.

From the menus, select **Settings** > **Call settings** > **Automatic redial** > **On** or **Off**.

1-touch dialing

You can turn the 1-touch dialing feature on and off. For more information, see "1-touch dialing" on page 54.

From the menus, select **Settings** > **Call settings** > **1-touch dialing** > **On** or **Off**.

Call waiting

If supported by your service provider, call waiting notifies you of an incoming call even while you are in a call. You can then accept, reject, or ignore the incoming call.

ACTIVATE OR DEACTIVATE CALL WAITING

From the menus, select **Settings** > **Call settings** > **Call waiting** > **Activate** or **Cancel**.

USE CALL WAITING

1 During a call, press the **Talk** key to answer the waiting call.

The first call is put on hold.

2 Press the **End** key to end the active call.

Summary after call

You can display the time spent on a call when you hang up.

From the menus, select **Settings** > **Call settings** > **Summary after call** > **On** or **Off**.

Send my caller identity

You can prevent your number from being displayed on the receiving party's caller ID. This feature is network-dependent and works on a call-by-call basis. Contact your service provider for more information.

From the menus, select **Settings** > **Call settings** > **Send my caller ID** > **Set by network**, **Yes**, or **No**.

A message appears in the display confirming your selection.

Select a line for outgoing calls

Note: This is a network-dependent feature. Check with your service provider for availability and a description of the feature.

1 From the menus, select **Settings** > **Call settings** > **Line for outgoing calls**.

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Note: If you select **Line 2** but have not subscribed to this network service, you will not be able to place calls. However, calls on both lines can be answered regardless of the selected line.

2 Select either **Line 1** or **Line 2**.

A message appears in the display confirming your selection.

Note: If supported by your SIM card, you can prevent the line selection by using the **Lock** option.

• PHONE SETTINGS

Set the display language

1 From the menus, select **Settings** > **Phone settings** > **Phone language**.

2 Select the language of your choice.

Phone memory

1 From the menus, select **Settings** > **Phone settings** > **Memory status**.

After a brief pause, **Free memory**, **Used memory**, **Contacts**, **Text messages**, **Multimedia msgs.**, **Gallery**, **Organizer**, and **Applications** appear in the display.

2 Scroll through the list to view the memory associated with each item.

Note: For more information, see "Shared memory" on page 3.

Activate or deactivate automatic Keyguard

When the Keyguard is on, calls still may be possible to the official emergency number programmed into your phone. Enter the emergency number and press the **Send** key.

You can set the keypad of your phone to lock automatically after a preset time delay (from 10 seconds to 60 minutes). When the preset delay expires, the keypad locks automatically.

1 From the menus, select **Settings** > **Phone settings** > **Automatic keyguard** > **On** or **Off**.

2 If you selected **On**, **Set delay** appears in the display.

3 Enter the delay (in *mm:ss* format) and select **OK**.

Activate or deactivate cell info display

Note: Cell info display is network-dependent and may not work the same in all networks. Contact your service provider for availability.

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When this function is selected, your phone will indicate when it is used in a system cell based on Micro Cellular Network technology. MCN technology increases the capacity of wireless networks in urban areas. The setting will remain in effect even if the SIM card is changed or the phone is switched off.

From the menus, select **Settings > Phone settings > Cell info display > On** or **Off**.

A message appears in the display confirming your selection.

Note: If the **GPRS connection** is set to **Always online**, info messages may not be received. In that case, set the **GPRS connection** to **When needed**, see "GPRS, EDGE, CSD" on page 64 for more information.

Write a welcome note

You can write a welcome note which shows up briefly on your display whenever you power up your phone.

Predictive text input cannot be used for entering welcome note text.

1 From the menus, select **Settings > Phone settings > Welcome note**.

2 Enter a note (up to 44 characters).

Press the * key to display and select from available special characters. For more information on special characters, see "Punctuation and special characters" on page 22.

3 When you are finished, select **Options > Save**.

Set up network selection

You may be able to manually search for another network which has a roaming agreement with your home service provider.

From the menus, select **Settings > Phone settings > Network selection** and one of the following:

Automatic—Your phone defaults to those settings which have been preset by your service provider.

Manual—Your phone searches for a network which has a roaming agreement with your service provider.

Note: If **No system access** appears in the display, you will need to switch to **Automatic** mode, or insert another SIM card into the phone.

Confirm SIM service actions

This option allows you to request notification when your service provider makes changes to SIM-related services (such as activating GPRS service). This is a Network Service and may not appear on your phone, depending on your service provider.

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1 From the menus, select **Settings > Phone settings > Confirm SIM service actions**.

2 Select **Yes** to request notification, or **No** to prevent notification.

A message appears in the display confirming your selection.

Activate or deactivate help text

Your phone displays brief descriptions for most menu items. When you arrive at a feature or menu, pause for about 15 seconds. Use the scroll keys to page through the full help text, if necessary.

The default setting for Help text is On. However, you can turn help text on or off by doing the following from the start screen.

From the menus, select **Settings > Phone settings > Help text activation > On** or **Off**.

A message appears in the display confirming your selection.

Activate or deactivate start-up tone

You can set your phone to play (or not to play) a start-up tone when the phone is switched on.

From the menus, select **Settings > Phone settings > Start-up tone > On** or **Off**.

A message appears in the display confirming your selection.

• ENHANCEMENT SETTINGS

The **Enhancement settings** menu is shown only if the phone is or has been connected to one of the compatible enhancements such as the headset or music stand.

Each compatible enhancement appears in the **Enhancement settings** menu only after it has been connected to the phone. Once an enhancement has been connected, it always appears in the menu even if it is not currently connected.

1 From the menus, select **Settings > Enhancement settings > Headset**, **Handsfree**, **Loopset**, **TTY**, or **Music stand**.

A list of options appears in the display.

2 Select the option of your choice and follow the prompts.

Headset options

Default profile—Choose the profile you wish to be automatically activated when a headset is connected.

Automatic answer—Calls are answered automatically after one ring when a headset is connected. Select **On** or **Off.**

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Handsfree options

Handsfree options are available when the phone is connected to a car kit.

Default profile—Choose the profile you wish to use when your phone is connected to a car kit.

Automatic answer—Calls are answered automatically after one ring when a car kit is connected. Select **On** or **Off**.

Lights—Choose to keep the phone lights always on, or to shut off automatically after several seconds. Select **On** or **Automatic**.

Ignition sense—When the phone is connected to the full car kit, prevents the phone from draining the car battery when the car ignition is off. Select **Ignition on** to automatically switch off the phone approximately 20 seconds after the car ignition is turned off. Select **Ignition off** to leave the phone on when the car ignition is turned off.

Loopset options

Use loopset—Enable use of the LPS-4 mobile inductive loopset. Select **Yes** or **No**.

Default profile—Choose the profile you wish to be automatically activated when a loopset is connected.

Automatic answer—Calls are answered automatically after one ring when a loopset is connected. Select **On** or **Off**.

TTY options

Use TTY—Activates the TTY feature. Select **Yes** to activate TTY or **No** to deactivate.

Music stand options

Default profile—Choose the profile you wish to be automatically activated when your phone is connected to the music stand.

Automatic answer—Calls are answered automatically after one ring when the phone is connected. Select **On** or **Off**.

Lights—Choose to keep the phone lights always on, or to shut off automatically after several seconds. Select **On** or **Automatic**.

• SECURITY SETTINGS

For information about security features, see “Phone security” on page 23.

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• RESTORE FACTORY SETTINGS

You can reset some of the menu settings to their original values.

1 From the menus, select **Settings > Restore factory settings**.

2 Enter the security code (the default is 12345) and select **OK**.

A message appears in the display confirming that original settings have been restored.

Note: Data that you have entered or downloaded is not deleted. For example, names and numbers in contacts are not affected.

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11 Gallery (Menu 5)

You can save pictures and ringing tones to folders in the gallery, or create folders of your own and save them there. You can download images and tones using MMS, web sites, or Nokia PC Suite.

Your phone supports usage rights to protect content that you have acquired. A piece of content, such as a ringing tone, can be protected and associated with certain usage rules, for example the number of usage times. The rules are defined in the content's usage rights that can be delivered with the content or separately, depending on the service provider. You may be able to update these rights. Always check the delivery terms of any content and usage rights before acquiring them, as they may be subject to a fee.

• FOLDERS

At the start screen, select **Menu 5 (Gallery)** and one of the following:

View folders—Display the folders in the gallery menu.

Add folder—Create a new folder.

Delete folder—Delete a folder you have created. The preset folders cannot be deleted.

Rename folder—Rename a folder you have created. The preset folders cannot be renamed.

Usage rights list—View the available usage rights.

Gallery downloads—Download more images and tones. Select **Graphic downloads** or **Tone downloads**, then select a site. Selecting **More bookmarks** displays the list of bookmarks in the **Services** menu.

When you select **Gallery downloads**, the phone tries to connect to the Internet using your browser and the currently active set of gallery downloads. If the connection fails, you may need to activate another set or change the current settings. See "Set up for browsing" on page 92 for more information.

• FOLDER ITEMS

1 From the menus, select **Gallery > View folders**.

A list of folders appears in the display.

2 Scroll to a folder and select **Open**.

A list of images or tones appears in the display.

3 Scroll to an image or tone, and select **Options**.

Depending on the type of file, some of the following options appear:

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Play—Play a multimedia file.

Pause—Pause a multimedia file that is playing.

Open—Open the selected file.

Delete—Delete the selected file.

Send—Send the selected file.

Note: The **Send** option may not be available if the selected file (either image or sound) is copyrighted.

Edit image—Start the image editor.

Move—Move the file to another folder.

Rename—Rename the selected file.

Mute audio—Mute a sound file.

Unmute audio—Unmute a muted sound file.

Set contrast—Adjust the contrast in the image.

Set as wallpaper—Set the image as wallpaper.

Set as ring tone—Use the tone as the ringing tone in the current profile.

Details—View details of the file, such as the name, time and date the file was created.

Sort—Sort the files according to name, date, format, or size.

View in sequence—View all of the images in the folder sequentially as a slide show, or listen to each of the tones in sequence.

Update rights—Update the usage rights of the selected file if it has valid usage rights. This option is only shown if the file supports rights updating.

Copyright protections may prevent some images, ringing tones, and other content from being copied, modified, transferred, or forwarded.

• EDIT AN IMAGE

1. From the menus, select **Gallery > View folders**.
2. Select a folder that contains images and select **Open**.
3. Scroll to an image and select **Options > Edit image > Options**.

   Options include **Save**, **Insert text**, **Insert frame**, **Insert clip-art**, and **Crop image**.

To insert text in the center of the image:

1. Select **Insert text**.
2. Enter text in the text editor and select **OK**.
3. To change the appearance of the inserted text, select **Options > Font style**, **Font size**, **Font color**, or **Rotate**, and follow the prompts.

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4 When you are satisfied with the appearance of the inserted text, select **Options** > **OK**.

To put a frame around the image:

1 Select **Insert frame**.

2 Scroll to one of the frame images in the **Graphics** folder and select **Options** > **Insert**.

3 When the image is displayed with the frame added, select **OK**.

To insert clip art in the center of the image:

1 Select **Insert clip-art**.

2 Scroll to one of the clip art images in the **Graphics** folder and select **Options** > **Insert**.

The image is displayed with the clip art added.

3 Use the scroll keys to move the clip art up, down, left, and right on the image.

4 To change the size and shape of the clip art, select **Options** > **Rescale** and use the scroll keys to move the bottom and right borders of the clip art.

5 When you are satisfied with the size and position of the clip art, select **Options** > **OK**.

To crop the image:

1 Select **Crop image** > **Portrait size** or **adjustable size**.

The image appears with a marking box to indicate the part of the image that is being cropped.

2 Use the scroll keys to move the marking box up, down, left, and right on the image.

3 To change the size of the marking box, select **Options** > **Rescale** and use the scroll keys to move the bottom and right borders of the box.

4 To change the position of the marking box, select **Options** > **Move** and use the scroll keys to move the box.

5 To toggle between **Rescale** mode and **Move** mode, press the **#** key.

6 When you are satisfied with the size and position of the marking box, select **Options** > **OK**.

7 The portion of the image inside of the marking box appears in the display.

To save the edited image:

1 Select **Options** > **Save**.

2 Enter a name for the image and select **OK**.

3 Select the folder where you want to save the image.

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12 Media (Menu 6)

In this menu you can use the built-in camera, FM radio, and voice recorder.

• CAMERA

You can take photos with the built-in camera and adjust its settings. The camera lens is on the back of the phone, and the color display of the phone works as a viewfinder. The camera produces JPEG images. The camera self-timer has a 10-second delay. After you have taken a picture, you can attach it to a multimedia message and send it with MMS, save it as wallpaper in the standby mode, save it in a compatible PC using Nokia PC Suite software, and upload it to a web address with the content image uploader. When you attach a picture to an entry in your list of contacts, the picture is displayed when your contact calls you.

If there is not enough memory to take a new photo, you need to free some by deleting old photos or other files in the gallery.

When using the features in this device, obey all laws and respect privacy and legitimate rights of others.

Take a photo

1 From the menus, select **Media** > **Camera** and one of the following:

Standard photo—Lets you take a photo in landscape orientation under normal lighting conditions.

Portrait photo—Lets you take a photo in portrait orientation that can be added to a name/phone number saved in contacts.

Night mode—Lets you take a photo in landscape orientation in dim lighting.

2 The live image appears on the display, and you can use the display as a viewfinder.

3 To take a photo, select **Capture**.

When taking a photo, a shutter sound is heard. The phone saves the photo in the **Images** folder of the **Gallery** menu. The saved photo is shown on the display.

4 Select **Back** to take another photo.

OR

Select **Options** and one of the following:

Zoom—Display a zoomed-in version of the photo.

Delete—Delete the selected photo.

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Send—Send the selected photo in a multimedia message or by IR.

Attach to contact—Attach the selected photo to a name and number in contacts. When the phone receives a call from that contact, the photo appears on the display screen. The photo must be in portrait mode.

Rename—Rename the selected photo.

Open Gallery—Display the **Photos** folder in the **Gallery**.

Change mode—Select either **Standard photo**, **Portrait photo**, or **Night mode**.

Set contrast—Increase or decrease contrast of the selected photo using the **Scroll right** and **Scroll left** keys.

Set as wallpaper—Set the photo as wallpaper.

Details—View details of the photo, such as the name, time and date the photo was taken.

Note: When a photo is zoomed, the photo is not stored permanently in the zoomed size. You cannot edit or send a zoomed photo. Select **Back** to display the image in normal size.

Self-timer

From the menus, select **Media > Camera > Self-timer > Standard photo**, **Portrait photo**, or **Night mode > Start**.

After the timeout, the camera takes the photo and saves it in the **Gallery** menu.

While the self-timer is running, a beeping sound is heard.

Settings

You can select the level of image quality, turn camera sounds on and off, and define a default title to be used when you save a photo.

From the menus, select **Media > Camera > Settings** and one of the following:

Image quality—Define file compression when saving the image. Select **High**, **Normal**, or **Basic**. **High** has the least file compression and provides the best image quality, but takes more memory.

Camera sounds—Set the shutter sound and the self timer tone to **On** or **Off**.

Default title—Define the title that will be used when saving a photo. If you select **Automatic**, the default title will be used, or if you select **My title**, you can enter or edit a new title.

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• RADIO

Your phone has an FM radio that also functions as an alarm clock radio. You can listen to the FM radio on your phone through the handsfree speaker or with a headset. For FM stereo, connect a DT-1 music stand or HDS-3 stereo headset to the connector on the bottom of the phone.

The FM radio uses the wire of the headset as an antenna. A compatible headset needs to be attached to the device for the FM radio to function properly.

The quality of a radio broadcast depends on coverage of the radio station in that particular area.

Note: Listen to music at a moderate level. Continuous exposure to high volume may damage your hearing.

Turn the radio on and off

1 Attach an audio enhancement to the phone.

2 From the menus, select **Media > Radio**.

3 To turn off the radio, press and hold the **End** key.

Use the radio

Note: When you place or receive a call, the radio automatically mutes. Once the call is ended, the radio switches back on.

With the radio on, select **Options** and one of the following:

Turn off—Turn off the radio.

Save channel—Save the current station to one of 20 locations.

Automatic tuning—Briefly press a scroll key to start the channel search up or down. Select **OK** when a channel is found.

Manual tuning—Press the **Scroll up** key or the **Scroll down** key to search in increments of 0.5 MHz. Select **OK** when a channel is found.

Set frequency—Use the keypad to enter the frequency of a known radio station.

Delete channel—Delete a saved channel.

Rename—Enter a new name for the saved channel and select **OK**.

Loudspeaker—Listen to the radio through the speakerphone.

Headset—Listen to the radio through the headset.

Mono output/Stereo output—Listen to the radio in monaural mode (default) or in stereo. Stereo output is available through a stereo enhancement.

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To set the radio frequency, press the * key and use the keypad to enter the frequency of a known radio station. To tune the radio manually, press the # key; then press the **Scroll up** key or the **Scroll down** key to search in increments of 0.5 MHz.

To adjust the volume, press the **Scroll right** key (louder) and the **Scroll left** key (softer).

Note: When an application using a GPRS connection is sending or receiving data, it may interfere with the radio.

Save a radio channel

You can save a preset station to any one of 20 locations in memory, and then tune to that station by pressing the **Scroll up** key or the **Scroll down** key with the radio on.

1 With the radio on, press and hold the **Scroll up** key or the **Scroll down** key to start the channel search.

Searching stops when a channel is found.

2 To save the channel, select **Options** > **Save channel**.

3 Enter a name for the channel and select **OK**.

4 Select an **(empty)** location to save the channel.

To save an FM station quickly to 1–9 memory locations, press and hold the corresponding number key while the radio is playing. Then, enter the name of the channel and select **OK**.

• VOICE RECORDER

You can make a short (up to one minute) recording and save it to the **Recordings** folder in the Gallery. You can also record your phone calls.

The recorder cannot be used when a data call or GPRS connection is active.

Make a recording

1 From the menus, select **Media** > **Voice recorder**.

2 To start the recording, select **Record**.

3 Hold the phone in the normal position near your ear and record your message.

4 To stop the recording, select **Stop**.

The recording is saved in the **Recordings** folder of the Gallery.

5 To replay the latest recording, select **Replay last**.

6 To send the latest recording as a multimedia message or by IR to a compatible phone, select **Send**.

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Record a phone call

During a call, select **Options > Record**. To stop recording, select **Stop**.

The recording is saved in the **Recordings** folder of the Gallery.

Manage recordings

1 From the menus, select **Media > Voice recorder > Recordings list.**

2 Scroll to the **Recordings** folder and select **Open**.

3 Scroll to the desired recording and select **Options** and one of the following:

Open—Listen to the recording.

Delete—Delete the recording.

Rename—Enter a new name for the recording.

Set as ring tone—Use the recording as the phone ringing tone.

Details—View the name, size, date, time, length, format, and copyright status of the recording.

Sort—Sort the recordings in the folder by name, date, format, or size.

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13 Organizer (Menu 7)

Your phone has many useful features for organizing your everyday life, including an alarm clock, a calendar, and a calculator.

• ALARM CLOCK

The alarm clock is based on the internal clock of your phone. It sounds an alert or turns on the built-in FM radio at the time you specify. The alarm works even if the phone is off, as long as there is enough power in the battery. When the alarm is triggered, the clock radio alarm stays on until the radio is turned off.

Select an alarm tone

From the menus, select **Organizer > Alarm clock > Alarm tone** and one of the following:

Standard—Select the default alarm tone.

Radio—Use the radio as an alarm. If you select this option, connect the headset to the phone. The phone uses the last channel you listened to as an alarm tone. If the headset is not connected, the default alarm tone is used.

Ringing tone—Select an alarm tone from the ringing tone list.

Open Gallery—Select a sound clip from a Gallery folder to use as an alarm. Open a folder that contains tones, scroll to the tone you want, and select **Options > Select**.

Set an alarm

NOT ALREADY SET

1 From the menus, select **Organizer > Alarm clock > Alarm time**.

2 Enter the time for the alarm in *hh:mm* format, and select **OK > am** or **pm**.

Alarm on appears briefly in the display and appears on the start screen.

ALREADY SET

1 From the menus, select **Organizer > Alarm clock > Alarm time > On**.

2 Enter the time for the alarm in *hh:mm* format, and select **OK > am** or **pm**.

Alarm on appears briefly in the display and appears on the start screen.

Turn off an alarm setting

From the menus, select **Organizer > Alarm clock > Alarm time > Off**.

Alarm off appears briefly in the display.

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When the alarm sounds

Your phone beeps, vibrates, and the display lights up. **Stop** and **Snooze** appear in the bottom of the display.

WITH THE PHONE ON

Select **Stop** to shut the alarm off.

OR

Select **Snooze**. The alarm stops for 10 minutes and **Snoozing** appears in the display.

If you do not press a key, the alarms stops (snoozes) for 10 minutes, and then sounds again.

WITH THE PHONE OFF

If the alarm time is reached while the device is switched off, the device switches itself on and starts sounding the alarm tone. If you select **Stop**, the device asks whether you want to activate the device for calls. Select **No** to switch off the device or **Yes** to make and receive calls. Do not select **Yes** when wireless phone use may cause interference or danger.

• CALENDAR

The calendar keeps track of reminders, calls you need to make, meetings, and birthdays. It can even sound an alarm for any of these events.

Open the Calendar

From the menus, select **Organizer > Calendar**.

OR

Press the **Right selection** key at the start screen.

After a brief pause, the **month view of the calendar** appears in the display with the current date highlighted. You can move to another date by using the four-way scroll keys like a joystick.

Month view

The month view provides an overview of the selected month and weeks. It also allows you to jump to a specific date. Any days or dates that appear in bold font contain calendar notes such as a meeting or reminder.

Month view

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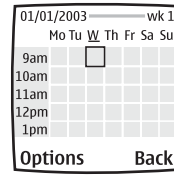
Week view

The Week view displays one week at a time, with each day divided into one-hour blocks.

In the month view, select **Options > Week view**.

To return to the month view, select **Back**.



Week view

Calendar options

In either calendar view, select **Options** to display the following options:

View day—View calendar notes for the selected day.

Week view—Go to the week view (available only in month view).

Make a note—Enter a note for the selected day or time.

Go to date—Jump to another date.

Settings—Set the date and time, date and time format, the day each week starts, and whether you want your notes to autodelete after a specified time.

Go to a date

1 In either calendar view, select **Options > Go to date**.

2 Enter the date (for example, 12/15/2003) and select **OK**.

The calendar appears in the display with the jump date highlighted.

Make a calendar note

You can choose from five types of notes: **Meeting**, **Call**, **Birthday**, **Memo**, and **Reminder**. Your phone asks for further information depending on which note you choose. You also have the option to set an alarm for any note that you select.

1 Go to the date for which you want to set a reminder.

See “Go to a date” on page 83 for more information.

2 From the monthly view with the go to date highlighted, select **Options > Make a note** and one of the following:

Meeting prompts you to enter a subject, location, and then a start/end time. You are then given the option to set an alarm.

Call prompts you to enter a phone number, a name, and the time. You are then given the option to set an alarm.

Birthday prompts you to enter the person’s name, and year of birth. You are then given the option to set an alarm.

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Memo prompts you to enter a subject and then a start date and end date. You are then given the option to set an alarm.

Reminder prompts you to enter the subject you wish to be reminded about. You are then given the option to set an alarm.

3 Enter the note and select **Options** > **Save**.

4 Enter the information requested by the prompts.

View calendar notes

After you have created some calendar notes, you can view them as follows:

1 From the menus, select **Organizer** > **Calendar**.

After a brief pause, the monthly view appears in the display with the current date highlighted. Any dates that contain calendar notes are in bold.

2 Use four-way scrolling to go to the date containing the note.

3 Select **Options** > **View day**.

Any notes you have for the day appear in a list format.

4 Scroll to the desired note and select **Options** > **View**.

The body of the note appears in the display.

Options while viewing calendar notes

Select **Options** while viewing a day's notes to display and the following options appear:

View—View the full note (available only in header view).

Make a note—Make another note for the selected date (available only in header view).

Delete—Delete the note.

Edit—Edit the note.

Move—Move the note to another date on your calendar.

Repeat—Make the note recur on a regular basis (daily, weekly, biweekly, monthly, and yearly).

Go to date—Jump to another date on your calendar (available only in header view).

Send note—Send the note to another device using Infrared or as a text message or in vCal format.

Copy—Copy the note. You can then paste the note to another date.

Settings—Set the date and time, date and time format, the day each week starts, and whether you want your notes to autodelete after a specified time.

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Send a calendar note to another device

1 From the menus, select **Organizer > Calendar**.

After a brief pause, the monthly view appears in the display. Days containing notes are in bold font.

2 Jump or scroll to the date containing the note you wish to send.

3 Select **Options > View day**.

4 Scroll to the note you wish to send and select **Options > Send note > Via Infrared**, **Via calendar**, or **Via text message**.

5 If you select **Via Infrared**, align the IR ports of both devices and select **Select**.

Ensure the other device is set to receive data using IR. For more information on enabling IR in the receiving device, refer to the user guide for the receiving device.

The note is sent.

6 If you select **Via calendar**, enter the number for the recipient (or select **Find** to retrieve a number from contacts) and select **OK**.

The note is sent.

7 If you select **Via text message**, the note appears in the display.

8 Select **Options > Send**.

9 Enter the number for the recipient, or select **Find** to retrieve a number from contacts, and select **OK**.

The note is sent.

Receive calendar notes from another device

When you receive a calendar note, your phone displays **Calendar note received**. You can then save the note in your calendar and set an alarm for any date and time.

VIEW RECEIVED CALENDAR NOTES

1 When your phone displays **Calendar note received**, select **Show**.

The text of your note appears in the display.

2 Press the scroll keys to view the entire message, if necessary.

SAVE RECEIVED CALENDAR NOTES

After viewing the **Calendar note**, select **Options > Save**.

DISCARD VIEWED CALENDAR NOTES

After viewing the **Calendar note**, select **Options > Discard**.

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• CALCULATOR

Basic calculations

The calculator in your phone adds, subtracts, multiplies, divides, counts the square and the square root, and converts currency values.

Note: This calculator has limited accuracy and is designed for simple calculations.

1 From the menus, select **Organizer** > **Calculator**.

2 In the calculator screen, enter the first number in the calculation.

Press the **#** key for a decimal point if necessary.

3 To perform an arithmetic calculation, press the ***** key to cycle through the add (+), subtract (-), multiply (*), and divide (/) characters, and pause briefly to select the displayed character.

OR

To perform a square or square root calculation, select **Options** > **Square** or **Square root**.

4 For an arithmetic calculation, enter the second number in your calculation, then select **Options** > **Equals**.

The sum of your calculation appears in the display.

Currency conversion

You can convert foreign currency to domestic, or vice versa directly from the start screen.

1 At the start screen, enter a currency amount to convert.

2 Select **Options** and one of the following:

To home—Converts foreign currency to domestic currency.

To foreign—Converts domestic currency to foreign currency.

If you have not done so already, you are prompted to enter the exchange rate.

3 Enter the exchange rate, using the **#** key to insert a decimal if needed, and select **OK**.

The converted amount appears in the display.

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Edit the exchange rate

Note: When you change base currency, you must enter the new rates because all previously set exchange rates are reset to zero.

1 From the menus, select **Organizer > Calculator > Options > Exchange rate** and one of the following:

Foreign units in home units—Enter the number of home units it takes to make one unit of foreign currency.

Home units in foreign units—Enter the number of foreign units it takes to make one unit of your home currency.

2 Enter the exchange rate and select **OK**.

The exchange rate is saved.

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14 Applications (Menu 8)

Your phone supports J2ME Java applications. You will find some Java applications and games pre-installed on your phone. Also, you can manage and download new applications and games from your service provider.

Running some applications and games may consume the battery faster and you may need to connect the phone to the charger.

• GAMES

Challenge yourself or a friend to one of the fun games in your phone!

From the menus, select **Applications > Games** and one of the following:

Select game—Select a game or enter a game option list. See "Game options" on page 88 for more info on game options.

Game downloads—Connect to game downloads on the mobile Internet using your browser.

Memory—Check the available memory for games and game related applications.

Settings—Turn game sounds, lights, and shakes on or off.

Launch a game

1 From the menus, select **Applications > Games > Select game**.

2 Scroll to a game and press the **Talk** key.

OR

Select **Options > Open**.

If the selection is a single game it will launch. Otherwise, a list of games within the selected game set appears in the display.

3 To launch a single game, scroll to the desired game and press the **Talk** key.

OR

Select **Options > Open**.

If a game uses the whole display area, selection keys such as **Options** or **Back** will not appear in the display. Press the **Left selection** key or the **Right selection** key to show the options keys **Select** or **Back** (returns to the game).

Game options

While viewing the games list, select **Options** to display the following options. Scroll to an option and select **Select** to activate the option or enter its submenu.

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Open—Play the game.

Delete—Delete the game.

Web access—Choose an option for restricting network access. Options are **Ask first**, **Allowed**, and **Not allowed**.

Update version—Check if a new version of the game is available for download.

Web page—Get more information or additional data from a mobile Internet page. This feature is shown only if it is supported by the network and a mobile internet address has been provided by the game.

Connect via—Some applications need specific service settings. Your phone is set to use as default the service settings for the browser.

Details—Display details of the game.

Game downloads menu

From the menus, select **Applications** > **Games** > **Game downloads** and one of the options displayed.

After a brief pause, the phone connects to the web pages using the currently active set of browser settings.

If the connection fails, you may enter the **Services** menu and activate another set of service settings. See "Options while online" on page 97 for more info on browser settings.

When downloading a game, it may be saved in the **Collections** menu instead of the **Games** menu.

Game memory

You can view the amount of memory available for games and applications.

From the menus, select **Applications** > **Games** > **Memory**.

Game settings

You can turn game sounds, lights, and vibration on or off.

From the menus, select **Applications** > **Games** > **Settings** > **Games sounds**, **Game lights**, or **Shakes** > **On** or **Off**.

• COLLECTION

Launch an application

1 From the menus, select **Applications** > **Collection** > **Select application**.

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2 Scroll to an application or an application set.

3 To launch the application, press the **Talk** key.

OR

Select **Options** > **Open**.

An application may require a few seconds to load. When you open an application, wait for the launch screen to disappear. At that point, the application is ready.

Application options

Open—Open the selected application or application set.

Delete—Delete the application or application set from your phone. If you delete a pre-installed application, you will not be able to recover it.

Web access—Choose an option for restricting network access: **Ask first** (ask for net access), **Allowed** (allow net access), **Not allowed** (do not allow net access).

Update version—Check if a new version of the application is available for download.

Web page—Get further information or additional data for the application from a mobile Internet page. This feature must be supported by a service provider. It is only shown if a mobile Internet address has been provided with the application.

Connect via—Some applications need specific service settings. Your phone is set to use as default the service settings for the browser.

Details—Shows additional information about the application.

Download applications

Note: This feature is network-dependent. Contact your service provider for more information.

You can download new Java applications in different ways.

APPLICATION DOWNLOADS

1 From the menus, select **Applications** > **Collection** > **App. downloads**.

After a brief pause, the list of available browser bookmarks appears in the display.

2 Select **More bookmarks** to access the list of browser bookmarks in your **Services** menu.

3 Select the bookmark that contains the application you wish to download.

After a brief pause, you are connected to the web page.

See “Navigate the mobile Internet” on page 93 for information on browsing web pages.

If the connection fails, you may enter the **Services** menu and activate another set of service settings. See “Options while online” on page 97 for more info on browser settings.

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DOWNLOAD LINKS

From the menus, select **Services > Download links > App. downloads** and one of the sites from the list.

Note: Only install sources that offer adequate protection against harmful software.

PC SUITE

Use the Java Application installer from PC Suite to download the applications in your phone.

Note: Only install sources that offer adequate protection against harmful software.

View memory status for applications

You can view the size of memory available for game and application installations.

From the menus, select **Applications > Collection > Memory**.

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15 Services (Menu 9)

Your phone has a built-in browser you can use to connect to selected services on the mobile Internet. You can view weather reports, check news or flight times, view financial information, and much more. The multi-mode browser on your phone can display content that uses Wireless Mark-up Language (WML) or extensible Hypertext Mark-up Language (XHTML).

This feature is a Network Service. Contact your service provider for more information.

Because mobile Internet content is designed to be viewed from your phone, your service provider is now your mobile Internet service provider as well.

It is likely that your service provider has created a home page and set up your browser to go to this page when you log on to the mobile Internet. Once at your service provider's home page, you may find links to a number of other sites.

• SET UP FOR BROWSING

It may not be necessary to manually configure the browser on your phone. Normally this is done by your service provider once you have subscribed to the feature. You may also receive the service settings as an over the air message from your service provider, or you may need to enter the service settings manually.

Contact your service provider if you have problems using the browser.

Save OTA service settings

To save the received settings, select **Options > save**.

OR

To discard the settings, select **Options > discard**.

Enter service settings manually

1. From the menus, select **Services > Settings > Connection settings > Active service settings**.
2. Scroll to the desired connection set and select **Activate > Edit active service settings**.
3. Select each setting and enter the required information. Contact your service provider for details.

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• SIGN ON TO THE MOBILE INTERNET

Activate service settings for the desired service

1 From the menus, select **Services** > **Settings** > **Connections settings** > **Active service settings**.

2 Scroll to the desired service and select **Activate**.

Connect to the service

Your service provider may have programmed the **Right selection** key to connect you directly to a web site, for example, the provider's customer site. You can change this setting by reprogramming the **Right selection** key. See "Personal shortcuts" on page 61.

There are several ways to connect to a service:

- To open the service's start page, from the menus, select **Services** > **Home**.

  OR

  At the start screen, press and hold the **0** key.
- To select a bookmark, select **Services** > **Bookmarks** and select a bookmark from the list.

  If the bookmark does not work with the current active service settings, activate another set of service settings and try again.
- To enter the address of the service, select **Services** > **Go to address**. Enter the address of the service and select **OK**.

After a brief pause, the phone attempts to connect to your service provider's home page.

If you see **Check service settings**, the phone may not be set up for browsing. Contact your service provider to make sure that your phone is configured properly.

• NAVIGATE THE MOBILE INTERNET

Since your phone screen is much smaller than a computer screen, mobile Internet content is displayed differently from content displayed on a computer. This section contains guidelines for using phone keys to navigate a WAP site.

- To browse the WAP site, press the **Scroll up** key or the **Scroll down** key.
- To select a highlighted item, press the **Talk** key.
- To enter letters and numbers, press a key from **0**–**9**.
- To enter special characters, press the ***** key.

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• EXAMPLES OF MOBILE INTERNET SITES

The following illustrations show most of the elements you may find on a mobile Internet site. These are examples only.

1) Header line. Shows the current mobile Internet site.

2) Active link. Appears as a highlighted word.

3) Inactive link. Appears as an underlined word.

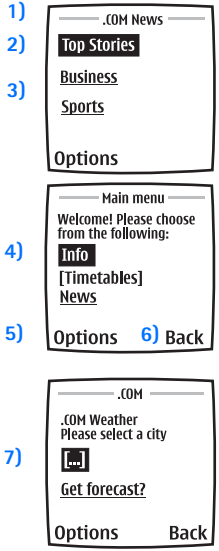
Scroll through the list of links using the **Scroll up** key and the **Scroll down** key.

4) Selection list. Brackets [ ] appear when you have the option to enter information.

5) Options. Select **Options** to go to the site menu and/or browser page.

6) Back. Select **Back** to return to the previous page.

7) Data entry field. Brackets [ ] that enclose dots indicate when you need to enter information. In this example, you can enter your zip code to receive the local weather forecast.



• BOOKMARKS

Your device may have some bookmarks loaded for sites not affiliated with Nokia. Nokia does not warrant or endorse these sites. If you choose to access them, you should take the same precautions for security or content as you would with any mobile Internet site.

You can save addresses for your favorite sites as bookmarks. You can add up to 50 bookmarks to your browser.

Enter bookmarks manually

1 From the menu, select **Services > Bookmarks**.

After a brief pause, a list of bookmarks (if any) appear in the display.

2 Select **Options > New bookmark**.

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3 Enter an address for the bookmark and select **OK**.

4 Enter a title for the bookmark and select **OK**.

A message appears in the display confirming your bookmark is saved.

Set bookmarks while online

While you are connected to the site that you want to bookmark, select **Options > Add bookmark**.

A message appears in the display confirming your bookmark is saved.

Receive a bookmark

1 When you receive a bookmark as an OTA message, select **Options**.

2 Select **View** to view the bookmark, **Save** to add it to the bookmark list, or **Discard** to discard it.

• SERVICE INBOX

You can receive service messages (“pushed messages”) from your service provider.

Receive service messages

To set the phone to receive service messages

From the menus, select **Services > Settings > Service inbox settings > Service messages > On**.

To set the phone to automatically fetch the content indicated in the service message:

From the menus, select **Services > Settings > Service inbox settings > Automatic conn. > On**.

View a service message

When you receive a service message, a note appears in the display.

At the start screen, select **Show** to view the message immediately, or **Exit** to save it for later viewing.

OR

While browsing, select **Options > Other options > Service inbox**.

To view a saved service message:

1 From the menus, select **Services > Service inbox**.

2 Scroll to the desired message and select **Options** and one of the following:

Retrieve—Fetch the content indicated in the message.

Details—View the details of the message.

Delete—Delete the message.

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• FILE UPLOAD

Depending on your service, you may be able to upload images and sound files from your phone to a web page. You must be connected to an XHTML page that contains embedded image upload tags. Follow the instructions on the display to upload files. For more information, contact your service provider.

• DISCONNECT FROM THE MOBILE INTERNET

To close your connection, press the **End** key twice.

• SET UP AN AUTOMATIC CONNECTION

Some service providers may have customized the options on the **Services** menu. Contact your service provider for more information if the options shown here are not available.

You can choose one of the following options for your GPRS connection.

From the menus, select **Settings > Connectivity > GPRS > GPRS connection** and one of the following:

Always online—The phone is automatically registered to a GPRS network when you turn your phone on. When you use the WAP browser, the connection between your phone and the network is created and data transfer is possible. When you exit the WAP browser, the GPRS connection ends but the registration to the GPRS network remains.

When needed—The GPRS connection is established when you use the WAP browser and is closed when you exit the WAP browser.

• RECEIVE A CALL WHILE ONLINE

If you are using the WAP browser over GPRS, you can still receive a voice call. Your data call is put on hold and you can choose to answer the call.

- To answer the incoming call, press the **Talk** key.
- To reject the incoming call, press the **End** key.

Note: After you end your voice call, the GPRS connection automatically resumes.

• MAKE A CALL WHILE ONLINE

When you are browsing a WAP site and want to make a call, select **Options > Other options > Use detail > Phone number**. Your phone then searches the information on the WAP site for a string of numbers. You can then choose from the number or numbers displayed to place the call.

An alternate way is to press the **End** key to disconnect from the mobile Internet, then place your call by searching contacts for a name and number or by keying in the phone number.

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• MAKE AN EMERGENCY CALL WHILE ONLINE

If you are using GPRS to connect to the mobile Internet, you can end your data connection and then make an emergency call.

1 To close your mobile Internet connection, press the **End** key.

2 Enter the emergency number for your present location (for example, 911).

3 Press the **Talk** key.

• OPTIONS WHILE ONLINE

While you are connected to the mobile Internet, select **Options** to access the following options. Some service providers may have customized these options. Contact your service provider for more information if any of the following options are not available.

Open list—Open a browser page.

Home—Start the browser and go to your service provider's home page.

Shortcuts—Open a new list of options that can be, for example, specific to the current page.

Add bookmark—Save the current page as a bookmark.

Bookmarks—Display all saved bookmarks. Bookmarks help you find a WAP site quickly.

Download links—View the list of bookmarks for downloading content.

Save to folder—Save the current page in a folder.

Other options—View a list of other available options, including.

- **Go to address**—Go to another site on the mobile Internet.
- **Service inbox**—Receive service messages ("pushed" messages) from your service provider.
- **Appear. settings**—Set settings for text wrapping and image viewing.
- **Use detail**—Copy information, such as a phone number, from the page.
- **Clear the cache**—Empty information or services you have accessed from your phone memory.
- **Security**—Show security information about the current connection and the server.

Reload—Reload and update the current page.

Quit—Disconnect from a service.

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• SECURITY

Cache memory

A cache is a memory location that is used to store data temporarily. If you have tried to access or have accessed confidential information requiring passwords, empty the cache after each use. The information or services you have accessed are stored in the cache.

To clear the cache from the menu, select **Services > Clear the cache**.

To clear the cache while browsing, select **Options > Other options > Clear the cache**.

Certificates

To use some WAP services, such as banking services, you need an authority certificate. Using the certificate can help you to improve the security of connections between your phone and a WAP server.

You can download the certificate from a WAP page if the WAP service supports the use of authority certificates. After the download, you can view the certificate, then save or delete it. If you save the certificate, it is added to the list of certificates in the phone.

Your phone alerts you if the identity of the WAP server or WAP gateway cannot be verified or is not authentic.

To view the list of authority certificates, from the menus, select **Services > Settings > Security settings > Authority certificates > Certificate list**.

Security module

The security module improves security services and allows you to use a digital signature. It can contain certificates and public and private keys. Your service provider saves the certificates in the security module.

From the menus, select **Services > Settings > Security settings > Security module settings** and one of the following:

Security module details—View the security module title, status, manufacturer, and serial number.

Module PIN request—Select **On** to set the phone to ask for the module PIN when using services provided by the security module.

Change module PIN—Change the module PIN, if allowed by the security module.

• ALLOW OR REJECT COOKIES

A cookie is data that a web site saves in your phone browser cache memory. The data can be, for example, your user information or your browsing preferences. Cookies will be saved until you clear the cache memory.

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1 From the menus, select **Services** > **Settings** > **Security settings** > **Cookies**.

OR

While browsing, select **Options** > **Other options** > **Security settings** > **Cookies**.

2 Select **Allow** to accept cookies or **Decline** to reject cookies.

• CREATE A DIGITAL SIGNATURE

You can make digital signatures with your phone. The signature can be traced back to you through the private key on the security module and the user certificate that was used to perform the signature. Using the digital signature can be the same as signing your name to a paper bill, contract or other document.

1 While browsing, select a link on a page, such as the title of the book you want to buy and its price.

The text to sign (possibly including amount, date, etc.) will be shown.

2 Check that the header text is **Read** and that the digital signature icon is shown. If the digital signature icon does not appear, there is a security breach, and you should not enter any personal data such as your signing PIN.

3 Read *all* of the text before signing, scrolling through the text if necessary.

4 To sign the text, select **Sign**.

5 Select the user certificate you want to use, enter the signing PIN (provided with the SIM card if the SIM card has a security module), and select **OK**.

The digital signature icon disappears, and the service may display a confirmation of your purchase.

• APPEARANCE SETTINGS

You can determine how pages appear on the phone display.

1 From the menus, select **Services** > **Settings** > **Appearance settings**.

OR

While browsing, select **Options** > **Other options** > **Appear.settings**.

2 Select one of the following options:

Text wrapping—Text on the web page continues on the next line if it cannot be shown on only one line. Select **On** to allow text wrapping, or **Off** to prevent text wrapping.

Font size—Select **Small**, **Normal**, or **Large**.

Show images—Select **Yes** to display pictures from the page, or **No** to hide pictures. When pictures are displayed, pages load more slowly.

Character encoding—Specify the character set that the phone uses for showing browser pages that do not include that information, or to specify whether to always use UTF-8 encoding when sending a Web address to a compatible phone.

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16 Go to (Menu 10)

The **Go to** menu lets you access specific functions quickly. You can personalize the menu so that it lists the functions you use most frequently. See “Personal shortcuts” on page 61 for instructions on setting up the **Go to** menu.

17 SIM services (Menu 11)

In addition to the functions available on the phone, your SIM card may provide additional services that you can access in this menu. This menu is shown only if it is supported by your SIM card. The name and contents of the menu depend entirely on the service available. For availability, rates, and information on using SIM services, contact your service provider.

To see the messages sent between the phone and the network when you are using the SIM services, select **Settings > Phone settings > Confirm SIM service actions > Yes**.

Accessing these services may involve sending a text message or making a phone call for which you may be charged.

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18 Instant messaging (Menu 12)

Take text messaging to the next level by experiencing instant messaging (IM) in a wireless environment. Engage in instant messaging with friends and family, regardless of the mobile system or platform (like the Internet) they are using, as long as you all use the same IM service. Check with your wireless service provider for availability.

Before you can start using IM on your phone, you must first subscribe to your wireless service provider's text messaging service. While only SMS capability is required to use the service, GPRS improves the speed of instant messaging. You must also register with the IM service you want to use. See "Register with an IM service" on page 102 for more information.

Note: Depending on both your IM service provider and your wireless service provider, you may not have access to all of the features described in this guide.

• IM SERVICE PROVIDER ICONS

Since each IM service has its own display text and icons associated with it, the display text and icons on your phone may appear differently for each IM service provider. If you have any questions about the differences in the various IM service providers' display text and icons, contact your wireless service provider for more information. The following table shows examples of IM icons and their descriptions:

Available

Available for contacts/Do not disturb

Appear offline

Available with an alert set

Offline with an alert set

Blocked contact

Unread message/new message

Read message

Group invitation

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• REGISTER WITH AN IM SERVICE

Before you can begin to use IM, you must register with an IM service to obtain an IM user name and password. You can obtain an IM user name and password by registering over the Internet (using your computer) with the IM service provider you have selected to use. During the registration process, you will have the opportunity to create the user name and password of your choice. For more information about signing up for IM services, contact your wireless service provider.

• IM MENUS

Offline

Before you log into IM, the IM menu appears as follows:

Login
Saved convers.
IM provider
Settings

Online

After you log into IM, the IM menu appears as follows:

Conversations
IM contacts
Add contact
Group convers.
IM availability
Saved convers.
Settings
Blocked list
Logout

• LOG IN

The first time you use IM, you need to enter your user name.

Every time you log in, you need to select the IM provider you want to use and you will receive screen prompts for your user name and password. You do not have to manually enter your user name after the first login; however, you must manually enter your password every time you log in.

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First time login

1 Select **Menu** > **IM** > **Login** and your IM service provider.

2 Enter your user name, and select **Options** > **OK**.

3 Enter your password, and select **Options** > **OK**.

After first time login

1 Select **Menu** > **IM** > **Login** and your IM service provider.

The **User ID** screen appears with your user name.

2 Select **Options** > **OK**, enter your password, and select **Options** > **OK**.

After you have logged into IM initially, you have the option of a manual login or an automatic login. See "Automatic login" on page 108 for information on setting up automatic login.

• SET YOUR AVAILABILITY

You can determine if other users can tell whether you are available or not.

From the IM online menu, select **IM availability** and one of the following options:

Available for all—All other users see your status as online and you receive availability information and messages from all other users.

Avail. for cont.—Even though just the contacts in **IM contacts** see your status as online, you receive availability information and messages from all other users.

Appear offline—Even though all other users see your status as offline, you receive availability information and messages from all other users.

• IM CONVERSATIONS

You can send instant messages to anyone who uses the same IM service as you do and if you have that person's user name. You can also add that person to **IM contacts** during an IM conversation. See "IM contacts" on page 105 for more information. More than one IM conversation can be active at the same time.

Conversation view

The conversation view of your IM conversation shows your initial message at the bottom of the screen, followed by the reply. As the conversation progresses, the most recent message appears at the top of the screen, causing the last message to move down one level.

The conversation is still active, even if you leave the conversation view. You can return to it when you want.

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1 From the IM online menu, select **Conversations**.

2 Select the IM conversation you want and **Open**.

Write and send

1 From the IM online menu, select **IM contacts** > **Select** > **Write to other**.

2 Enter the user name of the person to whom you want to send an instant message, and select **Options** > **OK**.

3 Select **Options** > **Write**, enter a message, and select **Options** > **Send**.

Write and send to contact

1 From the IM online menu, select **IM contacts** and the contact to whom you want to send a message.

2 Select **Chat** > **Options** > **Write**, enter a message, and select **Options** > **Send**.

Receive and reply

IN CONVERSATION VIEW

When you receive an instant message, your phone beeps and the sender's reply appears above your most recent message.

Select **Options** > **Write**, enter a message, and select **Options** > **Send**.

OUTSIDE CONVERSATION VIEW

When you receive an instant message, your phone beeps, and a screen with the sender's screen name appears, notifying you that you have received an instant message.

Select **Open** > **Options** > **Write**, enter a message, and select **Options** > **Send**.

Save

1 From the conversation view, select **Options** > **Save**.

2 Keep the conversation name that appears in the display, and select **Options** > **Save**.

OR

Select **Clear** as many times as necessary to delete the conversation name, enter the name you want, and select **Options** > **Save**.

View

From either the IM online or offline menu, select **Saved convers.** and the conversation you want to view.

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Rename

1 From either the IM online or offline menu, select **Saved convers.**, the conversation you want to rename, and **Options > Rename**.

2 Select **Clear** as many times as necessary to delete the conversation name; then enter the new conversation name.

3 Select **Options > OK.**

Delete

From either the IM online or offline menu, select **Saved convers.**, the conversation you want to delete, and **Options > Delete**.

End

IN CONVERSATION VIEW

Select **Back**, the conversation you want to end, and **End convers**.

OUTSIDE CONVERSATION VIEW

From the IM online menu, select **Conversations**, the IM conversation you want to end, and **End convers**.

• IM CONTACTS

Add the names of your friends and family (with whom you want to interact frequently through IM) to **IM contacts**.

Add

1 From the IM online menu, select **Add contact**.

2 Enter the contact's user name, select **Options > OK**.

The **Nickname** screen appears with the contact's user name.

3 To enter a nickname by which to identify the contact, select **Clear** as many times as necessary to delete the user name; then enter the nickname.

This is the name that appears in **IM contacts**.

4 Select **Options > OK**.

DURING IM SESSION

1 From the conversation view, select **Options > Add**.

The **User ID** screen appears with the contact's user name.

2 Select **Options > OK**.

The **Nickname** screen appears with the contact's user name.

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3 To enter a nickname by which to identify the contact, select **Clear** as many times as necessary to delete the user name; then enter the nickname.

This is the name that appears in **IM contacts**.

4 Select **Options** > **OK**.

ADD FROM CONVERSATION MENU

1 From the IM online menu, select **Conversations** and the conversation with the contact you want to add.

2 Select **Add contact**.

The **User ID** screen appears with the contact's user name.

3 Select **Options** > **OK**.

The **Nickname** screen appears with the contact's user name.

4 To enter a nickname by which to identify the contact, select **Clear** as many times as necessary to delete the user name; then enter the nickname.

This is the name that appears in **IM contacts**.

5 Select **Options** > **OK**.

Remove

From the IM online menu, select **IM contacts**, the contact you want to remove, and **Remove contact** > **OK**.

Block

1 From the IM online menu, select **IM contacts** and the contact from whom you want to block messages.

2 Select **Block contact** > **OK**.

OR

1 During a conversation with a contact, select **Options**.

2 Select **Block contact** > **OK**.

Unblock

1 From the IM online menu, select **IM Contacts** and the contact from whom you want to unblock messages.

2 Select **Unblock** > **OK**.

OR

1 From the IM online menu, select **Blocked list**.

2 Scroll to the contact, and select **Unblock** > **OK**.

3 To unblock other contacts, repeat step 2.

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View blocked list

From the IM online menu, select **Blocked list**.

Alert

SET

You can set an alert for a contact to notify you when the contact's availability changes.

1 From the IM online menu, select **IM contacts** and the contact for whom you want to set an alert.

2 Select **Set alert**.

REMOVE

1 From the IM online menu, select **IM contacts** and the contact for whom you want to remove an alert.

2 Select **Remove alert**.

• GROUP CHAT SESSIONS

You can create your own private chat groups from **IM contacts**. See "IM contacts" on page 105.

Create private chat group

From the IM online menu, select **Group convers.**, enter the group name (up to 10 characters), and select **Options > OK**

Your screen name appears.

Edit your screen name if desired, and select **Options > OK**.

Members

ADD

1 After creating aprivate chat group, select **Options > Group members**

2 In the **Group members** screen, select **Options > Send invitation**.

3 Select the contact whom you want to invite to the group chat.

4 Enter the invitation text, and select **Options > Send**.

5 To add other members to the group, repeat steps 2–4.

REMOVE

1 From the group list, select the member you want to remove.

2 Select **Options > Remove member**.

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Invitations

When you receive an invitation to a group chat, the **New invitation received** screen appears, with the user name of the invitation sender and the group name displaying. You can either accept or reject the invitation.

Select **Accept** > **Options** > **OK** or select **Reject**.

• IM SETTINGS

You can customize your IM settings, depending upon the IM service you have selected. Select **Settings** from either the IM online or offline menu and the following options appear:

Screen name—Allows you to change your screen name (nickname).

Automatic login—Allows you to set your login to the automatic state.

Sort contacts—Allows you to display your contacts' order either **Alphabetically** or **By status**.

Status updates—Allows you to update your contacts' online availability (presence).

Network—Allows you to set the connection settings for IM service. Contact your IM service provider for the settings.

Screen name

You can enter a screen name (nickname) that is 1–20 characters in length.

1 From either the IM online or offline menu, select **Settings** > **Screen name**.

2 Enter your screen name, and select **Options** > **OK**.

Automatic login

You can use automatic login after you have logged in with your user name and password.

From either the IM online or offline menu, select **Settings** > **Automatic login** > **Automatic login on**.

Sort contacts

From either the IM online or offline menu, select **Settings** > **Sort contacts** > **Alphabetically** or **By status**.

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Set up presence status updates

Presence allows you and other users to know who is online and available to chat. You can set your phone to automatically update a contact's presence status every time it is changed.

From either the IM online or offline menu, select **Settings > Status updates > On** or **Off**.

• LOG OFF SERVICE

From the IM online menu, you can exit the IM application, but still stay connected to the IM service. This enables you to receive instant messages from your contacts, when using your phone for other purposes, for example, if you are playing a game. If you are connected to your IM service, but you have not used your IM application for some time, you may be automatically disconnected from the IM service. The next time you open the IM application, you will receive a message, **Not connected** and you will be taken to the offline menu to log in again.

To disconnect from the IM service, you must log out from the IM online menu. You will be taken to the IM offline menu to log in again or exit the IM application.

Exit

From the IM online menu, select **Exit**. If you open IM again, you do not need to log in again.

Log out

From the IM online menu, select **Logout > OK**. The IM offline menu appears. If you want to exit IM, select **Exit**.

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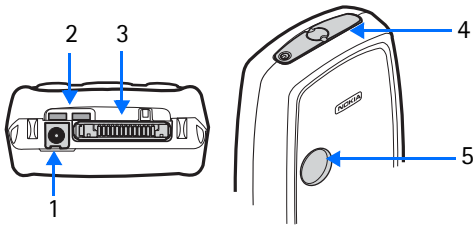
19 Hardware and enhancements

• HARDWARE

Connection ports and other tools

- Charger connector (1)
- Flashlight (2)
- Pop-Port™ connector for headsets and data cables (3)
- IR (infrared) port (4)
- Camera lens on the back cover of the phone (5)

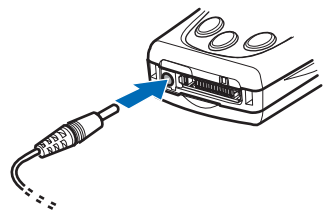


Recharge the battery

Your phone is powered by a rechargeable battery. To charge the battery:

1 Plug the charger transformer in to a standard ac outlet.

2 Insert the charger output plug into the round connector at the bottom end of the phone.



After a few seconds, the battery indicator in the display starts to scroll from bottom to top. If the battery is completely flat, it may take a few minutes before the charging indicator appears on the display or any calls can be made.

You can use the phone while the charger is connected.

The battery provides up to 4 hours of talk time and up to 12 days of standby time. Operation times are estimates and may vary depending on network conditions, charging and phone use.

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• CUT-OUT COVERS

You can use cut-out covers to quickly change the look of your phone. The phone is supplied with preprinted cut-out covers and with blank cut-out cover templates that you can decorate by hand or by using your compatible computer printer. Colors or ink used must not contain metal particles or increase the thickness of the cut-out cover.

Print on cut-out cover templates

You can use Nokia PC Suite software on your PC to print images (format *.bmp, *.gif, *.jpg, *.jpeg, *.png, *.otb, or *.wbmp) on the templates. Use photos that you take with the built-in camera in the Nokia 3200, or any other digital photos or artwork in a supported format.

NOKIA PC SUITE

You must install Nokia PC Suite on your PC before you can create personalized cut-out covers. For more information, refer to the *Nokia PC Suite 5.6 user guide and PC connectivity guide for the Nokia 3200 phone*. The guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of **www.nokia.com/us**.

TRANSFER PHOTOS FROM PHONE TO PC

You can use the built-in camera in the Nokia 3200 phone to take photos to print on the cut-out covers. Refer to the *Nokia 3200 user guide* for information about using the camera.

To transfer images from the phone to the PC, you must first use Nokia Connection Manager to connect your phone to your PC using either an IR connection or a data cable.

Once the connection is established, Nokia Content Copier provides a wizard-style interface for copying the images from your phone gallery to your PC.

For information about using Nokia Connection Manager and Nokia Content Copier, refer to the *Nokia PC Suite 5.6 user guide and PC connectivity guide for the Nokia 3200 phone*.

PRINT CUT-OUT COVERS

The cut-out cover templates are on postcard-size (3.94 X 5.83 inches) blanks. Each blank contains two perforated templates—one for the front cover and one for the back. You must print one cover at a time. You can use the same image on both covers, or select a different image for each.

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Because of the difference in printer tolerances, the selected image prints with about 1/8 inch of overlap. Before printing on a cut-out cover template, it is recommended that you do a test print on letter paper or postcard-size paper. After you are satisfied with the test print, load the cut-out cover template into the printer.

Use this procedure to print cut-out covers.

1 Launch the Nokia Image Converter on your PC.

2 Click **Open New Image**.

OR

Select **File > Open** from the menu.

3 Select the desired image file from the **Look in** drop-down box, and click **Open**.

The image is displayed in the viewer window.

4 Click **Next**.

5 In the **Select phone** drop-down box, select **3200**.

6 Click **Next**, and **Cut-Out Covers**.

An edit box appears on the image in the viewer window. You can use the edit box to select the portion of the image that will be printed on the cut-out cover.

7 To move the edit box, click and drag anywhere inside the box.

8 To resize the edit box, click and drag the adjustment handles on the corners and sides of the box.

9 When you are satisfied with the image, click **Next**.

The **Cut-Out Covers** window appears, showing the image as it will appear on the template.

10 To print the front cut-out cover, click **Front > Print**.

11 In the printer dialog box, specify the paper type as **Postcard** (if available) and activate the printer.

12 To print the back cut-out cover, reload the same blank in the printer.

13 To use the same image for the back cut-out cover, click **Back** in the **Cut-Out Covers** window; then click **Print**.

OR

To use a different image, repeat steps 2 through 11, clicking **Back** instead of **Front** in step 10.

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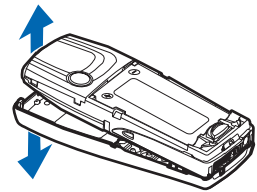
Change cut-out covers

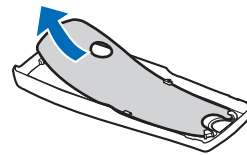
Note: Before removing the cover, always switch off the power and disconnect the charger and any other device. Avoid touching electronic components while changing the covers. Always store and use the device with the covers attached.

1 Remove the back cover as described in "Remove the back cover" on page 14.

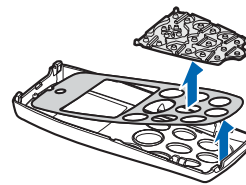
2 To remove the front cover, gently pull the top of the front cover from the phone.



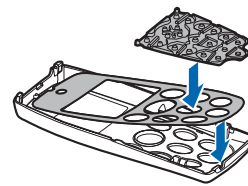
3 Remove the old back cut-out cover from the back cover.



4 Remove the keymat and the old front cut-out cover from the front cover.



5 Place the new front cut-out cover on the front cover, then replace the keymat.



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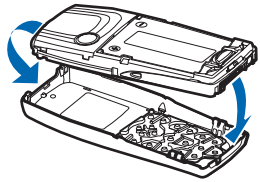
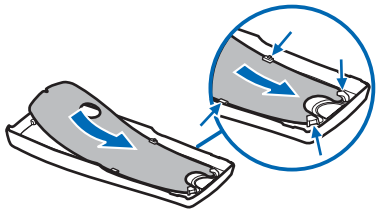
6 To replace the front cover, align the top of the phone with the top of the cover and press the bottom of the phone towards the cover until it snaps into place.



7 Place the new back cut-out cover into the back cover by sliding the cut-out cover under the two guides in the middle and at the bottom of the back cover.



8 Replace the back cover as described in “Replace the back cover” on page 15.

• ENHANCEMENTS

Power

- 720-mAh Li-Ion Battery (BLD-3)
- Standard Travel Charger (ACP-7)
- Rapid Travel Charger (ACP-8)
- Travel Charger (ACP-12)
- Mobile Charger (LCH-12)
- Spare Battery Charger (DDC-1) is compatible with:
  Standard Travel Charger (ACP-7)
  Rapid Travel Charger (ACP-8)

Data

- Data cable (DKU-5)
- Desktop Stand (DCV-14) is compatible with:
  Data cable (DKU-5)

Carrying

- Wrist strap (CP-6)

Audio

- Music stand (DT-1)
- Headset (HS-5)
- Boom headset (HDB-4)
- Stereo headset (HDS-3)
- Retractable headset (HS-10)
- Loopset (LPS-4)

Accessibility

- Phone adapter (HDA-10)

Car

- Car installation kit (CARK-126)
- Full car kit (CARK-143)
- Antenna coupler (AXF-15S)
- Mobile holder (MBC-15S)
- Privacy handset (HSU-3)
- Headrest handsfree (BHF-1)

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20 Reference Information

• BATTERY INFORMATION

Charging and discharging

Your device is powered by a rechargeable battery. The full performance of a new battery is achieved only after two or three complete charge and discharge cycles. The battery can be charged and discharged hundreds of times but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, buy a new battery. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

Unplug the charger from the electrical plug and the device when not in use. Do not leave the battery connected to a charger. Overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time. Temperature extremes can affect the ability of your battery to charge.

Use the battery only for its intended purpose. Never use any charger or battery that is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 59°F and 77°F (15°C and 25°C). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire! Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

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• ENHANCEMENTS

A few practical rules about accessories and enhancements:

- Keep all accessories and enhancements out of the reach of small children.
- When you disconnect the power cord of any accessory or enhancement, grasp and pull the plug, not the cord.
- Check regularly that enhancements installed in a vehicle are mounted and are operating properly.
- Installation of any complex car enhancements must be made by qualified personnel only.

• ENHANCEMENTS, BATTERIES, AND CHARGERS

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from ACP-7, ACP-8, ACP-12, and LCH-12.

Warning: Use only batteries, chargers, and enhancements approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous.

For availability of approved enhancements, please check with your dealer. When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

Your device and its enhancements may contain small parts. Keep them out of reach of small children.

• CARE AND MAINTENANCE

Your device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you protect your warranty coverage and enjoy your device for many years.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, remove the battery and allow the device to dry completely before replacing it.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.

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- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not attempt to open the device other than as instructed in this guide.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Use a soft, clean, dry cloth to clean any lenses (such as camera, proximity sensor, and light sensor lenses).
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.

All of the above suggestions apply equally to your device, battery, charger, or any enhancement. If any device is not working properly, take it to the nearest authorized service facility for service.

• ADDITIONAL SAFETY INFORMATION

Operating environment

Remember to follow any special regulations in force in any area and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions. To maintain compliance with radio frequency exposure guidelines only use accessories approved by Nokia for use with this device. When the device is on and being worn on the body, always use an approved carrying case.

Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch

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off your phone in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

PACEMAKERS

Pacemaker manufacturers recommend that a minimum separation of 6 inches (15.3 cm) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. To minimize the potential for interference, persons with pacemakers should

- Always keep the device more than 6 inches (15.3 cm) from their pacemaker when the device is switched on
- Not carry the device in a breast pocket
- Hold the device to the ear opposite the pacemaker

If you have any reason to suspect that interference is taking place, switch off your device immediately.

HEARING AID

Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, air bag systems. For more information, check with the manufacturer or its representative of your vehicle or any equipment that has been added.

Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that an air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

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Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refuelling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas, chemical plants or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

FCC regulations prohibit using your wireless device while in the air. The use of wireless telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Failure to observe these instructions may lead to suspension or denial of telephone services to the offender, legal action, or both.

EMERGENCY CALLS

Important: Wireless phones, including this phone, operate using radio signals, wireless networks, landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. You should never rely solely on any wireless phone for essential communications like medical emergencies.

To make an emergency call:

1. If the phone is not on, switch it on. Check for adequate signal strength. Some networks may require that a valid SIM card is properly inserted in the phone.
2. Press the **End** key as many times as needed to clear the display and ready the phone for calls.
3. Key in the official emergency number for your present location. Emergency numbers vary by location.
4. Press the **Talk** key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this guide or your service provider. When making an emergency call, give all the necessary information as accurately as possible. Your wireless phone may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

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CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model.

The following values are the highest SAR values for this model phone as reported to the FCC.

When tested for use at the ear:

FCCID # LJPRH-30 is 0.46 W/kg

FCCID # LJPRH-31 is 0.97 W/kg

When worn on the body as described in this user guide:

FCCID # LJPRH-30 is 0.95 W/kg

FCCID # LJPRH-31 is 0.97 W/kg

(Body-worn measurements differ among phone models, depending upon available enhancements and FCC requirements).

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While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of **http://www.fcc.gov/oet/fccid** after searching on FCC ID LJPRH-30 and FCC ID LJPRH-31.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with a carry case, belt clip, or holder that contains no metal and that positions the handset a minimum of 7/8 inch (2.2 cm) from the body. Use of other carry cases, belt clips, or holders may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the phone at the ear, position the handset a minimum of 7/8 inch (2.2 cm) from your body when the phone is switched on.

*In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. SAR values may vary depending on national reporting requirements and the network band. For SAR information in other regions please look under product information at **www.nokia.com**.

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• TECHNICAL INFORMATION

Feature	Specification
Dimensions	Width 45.1 mm Height 107.5 mm Depth 20.8 mm
Weight	90 g with BLD-3 Li-Ion Battery
Wireless networks	GSM 850, 900, 1800, and 1900 networks
Size (volume)	81 cm^3
Frequency range (Tx)	GSM 850: 824–849 MHz (for RH-31) GSM 900: 880–915 MHz (for RH-30) GSM 1800: 1710–1785 MHz (for RH-30 and RH-31) GSM 1900: 1850–1910 MHz (for RH-30 and RH-31)
Frequency range (Rx)	GSM 850: 869–894 MHz (for RH-31) GSM 900: 925–960 MHz (for RH-30) GSM 1800: 1805–1865 MHz (for RH-30 and RH-31) GSM 1900: 1930–1990 MHz (for RH-30 and RH-31)
Tx output power	2 W (max)
Battery voltage	3.7 V dc
Number of channels	299
Memory capacity	8 MB flash memory 1.5 MB RAM
Operating temperature	Between 59°F and 77°F (15°C and 25°C).
Number of entries in contacts	Up to 250

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• Nokia ONE-YEAR LIMITED WARRANTY

Nokia Inc. (“Nokia”) warrants that this cellular phone (“Product”) is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

1 The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.

2 The limited warranty extends only to the original purchaser (“Consumer”) of the Product and is not assignable or transferable to any subsequent purchaser/ end-user.

3 The limited warranty extends only to Consumers who purchase the Product in the United States of America.

4 During the limited warranty period, Nokia will repair, or replace, at Nokia’s sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. Nokia will also pay for the labor charges incurred by Nokia in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. Nokia’s limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. Nokia shall not be liable for any other losses or damages. These remedies are the Consumer’s exclusive remedies for breach of warranty.

5 Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.

6 The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.

7 The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:

a) The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts

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which are not the fault of Nokia, including damage caused by shipping.

b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, damage caused by computer or internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by Nokia.

c) Nokia was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.

d) The Product serial number plate or the enhancement data code has been removed, defaced or altered.

e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.

8 Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:

a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.

b) If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:
Nokia Inc., Attn: Repair Department
795 West Nasa Blvd.
Melbourne, FL 32901

c) The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.

d) The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.

e) Nokia will repair the Product under the limited warranty within 30 days after receipt of the Product. If Nokia cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, Nokia at its option, will provide a replacement Product or refund the purchase price of the Product less a

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reasonable amount for usage. In some states the Consumer may have the right to a loaner if the repair of the Product takes more than ten (10) days. Please contact the Customer Service Center at Nokia at the telephone number listed at the end of this warranty if you need a loaner and the repair of the Product has taken or is estimated to take more than ten (10) days.

f) If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, Nokia's normal service policies shall apply and the Consumer will be responsible for all shipping charges.

9 You (the Consumer) understand that the product may consist of refurbished equipment that contains used components, some of which have been reprocessed. The used components comply with Product performance and reliability specifications.

10 ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NOKIA KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NOKIA SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

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11 Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.

12 Nokia neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.

13 This is the entire warranty between Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.

14 This limited warranty allocates the risk of failure of the Product between the Consumer and Nokia. The allocation is recognized by the Consumer and is reflected in the purchase price.

15 Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.

16 Questions concerning this limited warranty may be directed to:
Nokia Inc.
Attn: Customer Service
7725 Woodland Center Blvd., Ste. 150
Tampa, FL 33614
Telephone: 1-888-NOKIA-2U (1-888-665-4228)
Facsimile: (813) 287-6612
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6542)

17 The limited warranty period for Nokia supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

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Appendix A Message from the CTIA (Cellular Telecommunications & Internet Association) to all users of mobile phones

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Safety is the most important call you will ever make.

A Guide to Safe and Responsible Wireless Phone Use

Tens of millions of people in the U.S. today take advantage of the unique combination of convenience, safety and value delivered by the wireless telephone. Quite simply, the wireless phone gives people the powerful ability to communicate by voice--almost anywhere, anytime--with the boss, with a client, with the kids, with emergency personnel or even with the police. Each year, Americans make billions of calls from their wireless phones, and the numbers are rapidly growing.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle--whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense---keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seatbelts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need.

When it comes to the use of wireless phones, *safety is your most important call*.

Wireless Phone "Safety Tips"

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember.

1 Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.

2 When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.

3 Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

4 Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and

ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

5 Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.

6 Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip--dial only a few numbers, check the road and your mirrors, then continue.

7 Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix--they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.

8 Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations--with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!

9 Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.

10 Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

The wireless industry reminds you to use your phone safely when driving.

For more information, please call 1-888-901-SAFE.
For updates: http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85

Appendix B Message from the FDA (U.S. Food and Drug Administration) to all users of mobile phones

©July 18, 2001For updates: http://www.fda.gov/cdrh/phones

Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA

and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell mobile or PCS phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called cordless phones; which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be

needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6.What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques, sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products--and at this point we do not know that there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a accompanied hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones
  http://www.fda.gov/cdrh/phones/index.html
- Federal Communications Commission (FCC) RF Safety Program
  http://www.fcc.gov/oet/rfsafety
- International Commission on Non-Ionizing Radiation Protection
  http://www.icnirp.de
- World Health Organization (WHO) International EMF Project
  http://www.who.int/emf
- National Radiological Protection Board (UK)
  http://www.nrpb.org.uk/

July 18, 2001For updates: http://www.fda.gov/cdrh/phones

Index

Numerics

1-touch dialing 54, 67

A

access codes
  PIN 23
  PIN2 28
  PUK 28
  security 27
access the Internet 93
activate call forwarding 65
adjust
  earpiece volume 18
  ringing volume 57
alarm clock 81
answer a call 18
antenna 16
anykey answer 66
applications 88–91
automatic
  redial 67
  volume control 66
availability 103

B

battery
  about 114
  recharge 110
bookmarks 94
brightness 60
business cards 53

C

calculator 86
calendar 82–85
call
  duration 48
  forwarding 65
  lists, delete 48
  log 46–48
  restriction 23
  times 48
  waiting 67
caller
  groups 55
  ID 67
calls
  answer 18
  emergency 97
  make 17
  reject 18
camera 76
cancel call forwarding 66
cell info display 68
change cut-out covers 113
chat groups 107
clock radio 81
clock, set 16
closed user groups 26
color scheme 59
conference calls 17
connection ports 110
connectivity 63–65
contacts 49–56
  1-touch dialing 54
  add image 52
  business cards 53
  call from 52
  caller groups 55
  copy 53
  delete 52
  find entry 51
  info numbers 55

 Copyright © 2004 Nokia

memory 56
menu options 49
own numbers 55
save 50
search 51
select view 56
service numbers 55
covers, cut-out 111–114
currency conversion 86
customer care 8
customize profile 57
cut-out covers 111–114

D

date settings 61
definition of terms 122
delete
1-touch dialing entry 55
call lists 48
contact entry 52
fixed dialing entry 25
messages 33
dialed numbers, view 47
dictionary 21
display
brightness 60
language 68
settings 58
download
applications 90
games 89
duration of calls 48

E

e-mail 40
emergency calls while online 97

F

fixed dialing 24–26
flashlight 4
folders
gallery 73
message 32
forward messages 37

G

gallery 73–75
games 88–89
glossary 122
Go to menu 100
GPRS connectivity 64
group chat 107

H

help text 70

I

IM
availability 103
contacts 105
conversations 103
group chat 107
log in 102
log off 109
offline menu 102
online menu 102
settings 108
images
add to contacts 52
edit in gallery 74
info
message service 45
numbers 55
infrared connectivity 63
install SIM card 14–15
instant messaging, see IM
international calls 17

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Internet
access 93
bookmarks 94
options 97
security 98
Internet service 92–99
K
keyguard 23
L
language 68
lock the keypad 23
M
make a call 17
media 76–80
menus 12
message alert tone 57
messages
default type 31
delete 33
e-mail 40
folders 32
forward 37
icons 30
info message service 45
instant 101–109
linked 29
multimedia 40–43
options 30
picture 38–39
read 36
reply 37
send 36, 39, 40, 41
service commands 45
settings 34–36
text 36
voice 43–45
missed calls, view 47
multimedia
messages 40–43
music stand 71
N
Nokia PC Suite 12
notes, calendar 83–85
O
operator logo 59
organizer 81–87
alarm clock 81
calculator 86
calendar 82
OTA settings 57
over the air settings 57
own numbers 55
P
PC Suite 12
personal shortcuts 61
phone
memory 68
security 23–28
picture messages 38–39
predictive text 21–22
print cut-out covers 111
profiles 57–58
customize 57
select 57
timed 58
punctuation 22
Q
quick keys 10
R
radio 78

 Copyright © 2004 Nokia

read messages 36
receive e-mail 36
received calls, view 47
recharge the battery 110
recorder, voice 79–80
redial a number 17
registration 7
reject a call 18
reply to messages 37
restore factory settings 72
ringing tone 57

S

safety 1
screen saver 59
security
  Internet 98
  phone 23–28
select profile 57
self-timer 77
send
  business card 53
  caller ID 67
  e-mail 40
  multimedia messages 41
  picture messages 39
  text messages 36
service
  commands 45
  numbers 55
services 92–99
set
  alarm clock 81
  clock 16
  date 61
  radio channel 78
settings 57–72
  anykey answer 66
  automatic redial 67
  call forwarding 65
  call waiting 67
  camera 77
  cell info display 68
  color scheme 59
  display 58–60
  display brightness 60
  display language 68
  enhancements 70
  help text 70
  IM 108
  language 68
  line for outgoing calls 67
  OTA 57
  personal shortcuts 61
  phone 68–70
  phone memory 68
  profiles 57–58
  restore factory settings 72
  screen saver 59
  security 71
  send caller ID 67
  start-up tone 70
  summary after call 67
  time and date 60
  tone 58
  wallpaper 58
  welcome note 69
shared memory 3
shortcuts
  personal 61
SIM
  card, install 14–15
  services 100
special characters 22
start screen 10

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start-up tone 70
summary after call 67
T
take a photo 76
text
entry 20–22
messages 36
predictive 21–22
time settings 60
timed profile 58
tones 57
turn off alarm clock 82
U
unlock the keypad 23
V
vibrating alert 57
view
call duration 48
call times 48
dialed numbers 47
missed calls 47
received calls 47
voice
mail 43–45
recorder 79–80
volume
control, automatic 66
earpiece 18
ringing tone 57
W
wallpaper 58
welcome note 69

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Nokia 3200 User Guide
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